North Central Texas Council of Governments Regional Storm Water Monitoring Program 2006-2010

FINAL COMPREHENSIVE SUMMARY REPORT

Prepared for:

North Central Texas Council of Governments
616 Six Flags Road
P.O. Box 5888
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Houston, Texas 77079

May 2010

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Acronyms and Abbreviations

ANOVA	Analysis of Variance
ASCE	American Society of Civil Engineers
BMP	Best Management Practices
BOD	biochemical oxygen demand
COD	chemical oxygen demand
CRP	Clean Rivers Program
DNT	Dallas North Tollway
EPA	Environmental Protection Agency
FSO	field sampling organization
LN	natural logarithm
MS	monitoring station
MS4	municipal separate storm sewer system
NCTCOG	North Central Texas Council of Governments
NELAC	National Environmental Laboratory Accreditation Conference
NPDES	National Pollutant Discharge Elimination System
NRC	National Research Council
NSQD	National Stormwater Quality Database
NTTA	North Texas Tollway Authority
PGBT	President George Bush Turnpike
RBA	Rapid Bio-Assessment
RSWMP	Regional Storm Water Monitoring Program
SWMP	Storm Water Management Program
TCEQ	Texas Commission on Environmental Quality
TDS	total dissolved solids
TMDL	total maximum daily load
TPDES	Texas Pollutant Discharge Elimination System
TxDOT	Texas Department of Transportation
TSS	total suspended solids

1.0 INTRODUCTION

1.1 EXECUTIVE SUMMARY

On August 10, 2006, the North Central Texas Council of Governments (NCTCOG) retained PBS&J under a Contract for Consulting Services to initiate and perform long-term systematic storm water quality monitoring at various in-stream stations across the Dallas-Fort Worth Metroplex area. The monitoring by PBS&J was performed in the jurisdiction of seven entities, each holding a Texas Pollutant Discharge Elimination System (TPDES) storm water discharge permit, and was made up of five municipalities (Cities of Arlington, Garland, Irving, Mesquite, and Plano) and two roadway authorities (North Texas Tollway Authority [NTTA] and the Texas Department of Transportation [TxDOT] Dallas District). The cities of Fort Worth and Dallas conducted monitoring using their own staff. Monitoring was conducted in accordance with the *Regional Stormwater Monitoring Program: Monitoring Program and Quality Assurance Project Plan for Wet Weather Equipment Deployment and Sampling Program* (PBS&J, 2007), submitted to the Texas Commission on Environmental Quality (TCEQ) in February 2007. Monitoring was performed on selected stations at a frequency of four times a year (quarterly) for three years in a different watershed each year for every entity. The monitoring started in 2007 and was conducted at three locations for each municipality (an upstream, midstream, and downstream site) and at two locations for the roadway authorities (upstream and downstream). The resulting data will be used to fulfill each permittee's requirements for their TPDES permit as approved by TCEQ on February 10, 2006.

Summary statistics were computed for all data and an analysis was conducted to determine outlier values for each parameter, which were subsequently removed from the dataset. Box-whisker plots were created to graphically depict the data. Statistical tests were used to identify factors determining in-stream water quality, including in-stream processes (sampling stations), seasons, antecedent dry period, and storm size.

In-stream processes were examined to determine whether there was any trend in water quality between sampling stations. In general, due to a limited number of samples collected at each station, firm conclusions regarding the factors determining in-stream water quality could not be made. The results of the statistical analyses examining in-stream processes indicated that all watersheds sampled have relatively consistent concentrations when compared to each other and that the trends between sampling stations have a general tendency of decreasing concentrations from upstream to downstream sites.

Seasonal effects on water quality were examined to determine if water quality was impacted by the effects of seasonal change. The results of the statistical analyses examining seasons suggest that water quality may be impacted during the warm months as would be expected. This condition should be reevaluated upon collection of more data to allow for rigorous statistical analysis.

Antecedent dry period was examined to determine if water quality was negatively impacted by long dry periods during which higher concentrations of pollutants may be allowed to build up. However, contrary to expected findings, the results indicated that for the majority of entities and parameters, antecedent dry period had little influence on the in-stream water quality.

Storm size was examined to determine if larger storms contributed more pollutants to the stream than smaller storms. Larger storms generally contributed to higher in-stream concentrations for most parameters. The range of storms sampled was not large enough, though, to make firm conclusions regarding the relationship between storm size and in-stream pollutant levels. This condition should be reevaluated upon collection of more data to allow for rigorous statistical analysis.

NCTCOG in-stream monitoring data was statistically compared to National Stormwater Quality Database (NSQD) data, NCTCOG outfall monitoring data, and Clean Rivers Program (CRP) data. The NSQD and NCTCOG data represent wet weather storm water outfall data, and the CRP data represents ambient, in-stream data collected during dry weather conditions. Expectedly, for many of the parameters monitored, the NCTCOG in-stream wet weather pollutant concentrations were found to be higher than similar pollutants observed during dry weather conditions. The results of the comparison of NCTCOG in-stream data with the NSQD and NCTCOG outfall data indicate that for some parameters the in-stream concentration of pollutants may be higher than for samples collected from storm water outfalls, but that for other parameters the in-stream concentration may be lower. As of this writing, EPA and the State of Texas have not yet promulgated wet-weather in-stream water quality standards that would be appropriate to use as benchmarks or comparison values for the results of this study. If such standards did exist, exceedences observed in this monitoring effort might require those pollutants to be considered pollutants of concern. At this time, because no such benchmarks or comparison values exist, the monitoring in this study did not reveal any pollutants of significant concern.

In addition to the comparative approach used to determine pollutants of concern discussed above, MS4 managers are expected to consider impairment pollutants (those pollutants contributing to a 303(d) listing) as pollutants of concern in the implementation of their storm water management program.

The NCTCOG and the participants intend to continue monitoring efforts using an in-stream monitoring approach. The information summarized in this report should provide NCTCOG and the participants sufficient information to support the development of a plan for continuing in-stream monitoring, augment their baseline set of data, and potentially derive a basis for assessing best management practices (BMP) effectiveness.

1.2 SCOPE OF SERVICES

On August 10, 2006, NCTCOG retained PBS&J under a Contract for Consulting Services to develop a comprehensive monitoring plan and perform long-term systematic storm water quality monitoring at 19 in-stream stations across the Dallas-Fort Worth Metroplex area to collect quarterly samples, analyze them, and assist with determining long-term trends and potentially assessing impacts of storm water on receiving streams. The monitoring was performed in the jurisdiction of seven entities, each holding a TPDES storm water discharge permit (Cities of Arlington, Garland, Irving, Mesquite, Plano, and roadway authorities NTTA and TxDOT-Dallas District). Fort Worth and Dallas watersheds were monitored by their own staff. Monitoring was conducted four times a year (quarterly) for three years, starting in 2007 and ending in 2009, in a different watershed each year for every entity (PBS&J, 2007). Each municipality was monitored at three sites within their watershed(s) (upstream, midstream, and downstream) and at two locations for the roadway authorities (upstream and downstream). This report discusses the permit requirements for the participants, describes the monitoring locations, summarizes the annual monitoring activities, analyzes and discusses the data, and provides conclusions and recommendations for future monitoring. The collection of both composite samples and grab samples occurred during the period from January 1, 2007, through December 31, 2009.

For this project, PBS&J performed the following tasks:

- Procured all necessary storm water quality equipment.
- Conducted initial and refresher training for monitoring staff and stakeholders.
- Developed a monitoring plan and quality assurance project plan.
- Assisted seven entities with the selection of monitoring sites for each monitoring year.
- Deployed and installed monitoring equipment for seven entities each monitoring year.
- Tracked weather for qualifying storms.
- Monitored 228 storm events successfully.
- Developed event summary reports for each successful event and submitted to the NCTCOG for review and posting to the NCTCOG's on-line web data viewer.
- Conducted routine maintenance on all monitoring equipment.
- Reviewed annual reports developed by the NCTCOG for submission to the TCEQ.
- Analyzed data from these activities using summary statistics, box-whisker plots, probability plots, and statistical comparisons of medians.

- Compiled this report to present the results of in-stream monitoring during wet weather conditions to assist with developing a baseline data set, evaluating the data for trends and recommending activities for future monitoring efforts.

Data collected from this new strategy will serve as a baseline for future monitoring activities using an in-stream monitoring approach.

1.3 BACKGROUND HISTORY

Under the National Pollutant Discharge Elimination System (NPDES) municipal storm water permit, permitted entities must develop and implement a Storm Water Management Program (SWMP) that characterizes runoff from various land use classifications. During the application phase of the EPA's NPDES large and medium municipal separate storm sewer system (MS4) permitting program in the 1990's, the cities, including Arlington, Dallas, Fort Worth, Garland, Irving, Mesquite, and Plano, along with the Dallas and Fort Worth districts of TxDOT, worked with the NCTCOG to form a regional partnership and strategy to conduct wet-weather monitoring activities. This partnership developed a regional monitoring program. A network of 30 monitoring sites was negotiated with EPA Region 6. The 30 sites would represent single predominant land uses. From 1992 through 1994, 210 storm events were sampled for 188 constituents. The data was used for the application process for their NPDES storm water permits.

After the application phase, the permit phase arrived along with requirements for continuing the monitoring activities. The regional program participants had the previous data analyzed in order to improve the program and to find cost-effectiveness. The resulting analysis determined that several sites could be discontinued and several of the 188 constituents were never detected and could therefore be dropped from the monitoring list (NCTCOG, 2003). The regional program went forward with a new set of parameters and monitoring locations. From 1997 through 2001, over 330 samples were collected from a 22-site network for 33 constituents. Since most of these samples were collected from areas with a small watershed consisting of a predominant land use type, they did little to characterize general urban runoff and did little to provide information on impacts to receiving streams.

With the permit renewal phase approaching and moving toward a TPDES permit, the regional program proposed the strategy of in-stream monitoring during wet-weather conditions to find a means to more accurately evaluate receiving water impacts (see Appendix A for letter). Data sets have been compiled and summarized in ongoing reports (e.g., National Storm Water Quality Database) on predominant single land use types; therefore, continuing with the previous strategies, little or no new information could be expected. The in-stream monitoring program would help with determining long-term trends and assessing the impacts of storm water on receiving streams. A copy of the approved plan is located in Appendix B.

PBS&J conducted monitoring activities, analyzed the results, and developed this report to meet those requirements.

1.4 ORGANIZATION OF DOCUMENT

This document is organized into eight sections as follows:

Section 1 – Introduction: Section 1.0 provides the Executive Summary, the background of the agreement between NCTCOG and PBS&J, the purpose of the project, including the monitoring phases and goals, and document organization.

Section 2 – Permit Requirements: Section 2.0 discusses the permit requirements, RSWMP participants, sampling schedule, requirements, and parameter list.

Section 3 – Monitoring Sites: Section 3.0 discusses the different monitoring locations, with a brief summary of their associated watersheds and land use.

Section 4 – Monitoring Activities: Section 4.0 summarizes the monitoring activities for each of the monitoring years.

Section 5 – Statistical Analysis: Section 5.0 presents the statistical analysis of the results, including summary statistics, analysis of variance, box-whisker plots, and grouped analysis.

Section 6 – Discussion of Results: Section 6.0 discusses the results of the statistical analysis and grouped analysis, including comparisons against other data sets.

Section 7 – Conclusions and Recommendations: Section 7.0 summarizes the data, assesses the use of the monitoring results, and provides recommendations for future monitoring.

Section 8 – References: Section 8.0 provides a comprehensive list of references cited in this report.

2.0 PERMIT REQUIREMENTS

This section discusses the permit requirements and participants for the RSWMP and the associated sampling schedule, requirements, and parameters to be sampled.

2.1 PARTICIPANTS AND PERMIT REQUIREMENTS

The NCTCOG provides coordination support services for the implementation of the RSWMP to execute in-stream storm water monitoring services for compliance with the TCEQ storm water monitoring discharge permits. The program participants include the Cities of Arlington, Dallas, Fort Worth, Garland, Irving, Mesquite, Plano, and roadway authorities NTTA and TxDOT-Dallas District. The following Table 2-1 List of Participants includes each permittee, the TPDES permit number, and permit issue date.

Table 2-1
List of Participants

Permittee	TPDES Permit Number	Date Issued
City of Arlington	WQ0004635000	5/26/2006
City of Dallas	WQ0004682000	7/27/2007
City of Fort Worth	WQ0004350000	2/22/2006
City of Garland	WQ0004682000	12/22/2005
City of Irving	WQ0004691000	5/26/2006
City of Mesquite	WQ0004641000	5/26/2006
City of Plano	WQ0004775000	7/20/2007
North Texas Tollway Authority (NTTA)	WQ0004400000	2/22/2006
Texas Department of Transportation (TxDOT)-Dallas District	WQ0004521000	6/30/2006

In 2003, a regional monitoring plan (NCTCOG, 2003) was submitted and later approved by TCEQ, which called for the monitoring of nine watersheds per year for a span of three years starting in January 2007 and concluding in December 2009. Watersheds were selected in 2006 for monitoring for all of the municipal entities. The roadway authorities selected their watersheds prior to the beginning of each monitoring year. Each municipality selected three sites within each watershed for monitoring. The three locations selected were upstream, midstream, and downstream locations within the watershed. In 2007, the City of Dallas selected five sites. The City of Fort Worth selected three watersheds and three sites within those watersheds to monitor. The City of Fort Worth also elected to conduct rapid bio-assessments (RBA) as a supplement to their storm water monitoring and did not monitor storms to the same frequency as the other entities. The roadway authorities only selected two sites, upstream and downstream locations. Each entity would monitor each site quarterly per calendar year. When monitoring was finished at the end of each calendar year, the monitoring equipment was moved to the next watershed. The schedule of monitoring is discussed in Section 2.2.1. This approach was proposed to allow for the evaluation of water quality changes throughout the watershed during wet weather events.

The regional plan also called for specific storm events to be sampled. Qualifying storm events were monitored for 18 parameters. Criteria for qualifying storm events and the list of parameters are discussed in Section 2.2.2.

2.2 REGIONAL STORM WATER MONITORING PROGRAM

The following subsections define the criteria for successful monitoring under the RSWMP.

2.2.1 Sampling Schedule

The regional plan called for three years of quarterly storm water monitoring where nine watersheds per year would be sampled starting on January 1, 2007, and ending on December 31, 2009. The quarterly monitoring periods would be:

- January 1–March 31
- April 1–June 30
- July 1–September 30
- October 1–December 31

Monitoring was conducted during the day, after hours, on weekends, and on holidays. At the end of each calendar year, new sites were selected and equipment was deployed to the new sites and monitored quarterly for one year.

2.2.2 Sampling Requirements

All monitoring was conducted on qualifying storm events. Qualifying storm events are those defined as satisfying the following requirements:

1. Antecedent Dry Period: 72 hours minimum

2. Rainfall Volume: 0.10 inch minimum

3. Rise in Stream Level 1 inch minimum

The antecedent dry period is defined as the period prior to the storm event where the site receives no greater than 0.10 inches of rainfall within, at least, a 72 hour period. The rainfall volume is the total amount of rainfall, in inches, within the contributing watershed upstream of the monitoring station. If the monitoring site met the previous two criteria and was experiencing a rain event, the stream level must rise at least 1 inch within one hour. The City of Fort Worth used a higher rise to trigger the automatic samplers and the City of Dallas triggered sampling when the rainfall reached 0.1 inch as measured on rain gauges located on field samplers. City of Dallas procedures were consistent with state and federal guidance, EPA-833-8-92-001 and the city's permit.

Each sampling site was equipped with an automatic sampler, level sensor (bubbler module), and power supply (battery). The equipment at each site was enclosed in a shelter. The bubbler line and sample suction line were encased in conduit and led to the stream. The upstream sites of every watershed contained a cellular modem and rain gauge. The rain gauge and modem were installed at the upstream site to provide notification to sampling staff to assist in sample retrieval. If the watershed and the other monitoring sites received a qualifying event and the upstream did not, the closest on-line Internet rain gauge networks were used.

The field sampling organization (FSO) attempted to mobilize to each site prior to any rain events. Upon arrival, the FSO checked the automatic samplers to verify that they were in working condition and taking samples if the qualifying criteria was met. The automatic samplers were equipped with four 1-gallon glass jars. When a qualifying storm event occurred and the stream level rose to the appropriate level (e.g., greater than 1 inch), the automatic sampler would fill the first jar with a 1-gallon aliquot and immediately move to the next jar and collect a 0.5-gallon aliquot. The sampler would continue to collect 0.5-gallon aliquots every 30 minutes after the initial sample for 120 minutes (2 hours). At the end of a 2-hour sampling event, aliquots were collected at the 0-minute (start of the sampling event), 30-minute, 60-minute, 90-minute, and 120-minute intervals, for a total of 3.5 full jars. Since each jar was 1 gallon, the two 0.5 aliquots were added to the second jar, two 0.5 aliquots into the third jar, and one 0.5 aliquot in the fourth jar. The first 1-gallon aliquot collected was for the grab sample constituents. The jars that contained the 0.5-gallon aliquots were for the composite samples.

Sampling was conducted in accordance with the *NCTCOG Regional Monitoring Plan* (NCTCOG, 2003) and the *Monitoring Program and Quality Assurance Project Plan (NCTCOG, 2006)*, both of which were approved by the TCEQ. The *Monitoring Plan and Quality Assurance Project Plan* is a detailed accounting of the regional protocol and includes a description of equipment, sampling procedure, analytes, their holding times, and other pertinent sampling details.

2.2.3 Parameter Set

Table 2-2 lists the parameters monitored and analyzed for the RSWMP, along with the method of collection.

Table 2-2
List of Parameters Analyzed

Parameter	Method of Collection
Oil/Grease	Grab
pH	Grab
E.coli	Grab
Total Coliform	Grab
Total Dissolved Solids (TDS)	Composite
Total Suspended Solids (TSS)	Composite
Biochemical Oxygen Demand (BOD)	Composite
Chemical Oxygen Demand (COD)	Composite
Total Nitrogen	Composite
Dissolved Phosphorus	Composite
Total Phosphorus	Composite
Diazinon	Composite
Total Arsenic	Composite
Total Copper	Composite
Total Cadmium	Composite
Total Lead	Composite
Total Zinc	Composite
Total Chromium	Composite

All parameters were analyzed by an approved laboratory. Copies of the laboratory certifications may be found in Appendix C. Analytical methods, sample hold times, minimum laboratory reporting limits, and method detection limits are available in the *NCTCOG Regional Monitoring Plan* (NCTCOG, 2003).

3.0 MONITORING SITES

This section discusses the different watersheds monitored for the three years. A list of the locations, brief descriptions, watershed characteristics, and land use are discussed. Maps of all monitoring locations and associated watersheds may be found in previous annual reports. Each site was assigned a six- to eight-digit identification number. The sequence of the identification number is as follows: AAAA-BB-CC where,

- AAAA is an abbreviation for the watershed monitored (AR - Arlington; DL - Dallas; GA - Garland; IR - Irving; MS - Mesquite; NTTA - NTTA; PL - Plano; and TX - TxDOT. The City of Fort Worth's watershed varied each year and will be defined under each subsection.).

- BB represents the last two digits of the year that it was collected (07 - 2007; 08 - 2008; and 09 - 2009).

- CC represents the station location within the watershed (01 - upstream; 02 - midstream; and 03 - downstream).

3.1 YEAR 2 MONITORING

The following is a description of the Year 2 monitoring sites. Information regarding the watershed and monitoring sites was derived from the *Annual Monitoring Report – Year 2 – (January–December 2007)* (NCTCOG, 2008).

3.1.1 Watersheds

Arlington: Rush Creek Watershed. Located in southeast Tarrant County entirely within the city of Arlington. The watershed is approximately 22,322 acres and is predominantly residential (46 percent) with open areas (22 percent), highway (19 percent), and commercial (11 percent).

Dallas: Dallas East Bank Watershed. Located within the Dallas city limits in central Dallas County and is approximately 17,029 acres. The watershed land use is predominantly highway (31 percent) with some commercial areas (19 percent), industrial (19 percent), and residential (16 percent).

Fort Worth: Big Fossil Creek Watershed. Located in northwest Tarrant County and drains southeast through north Fort Worth between Haslet and Saginaw. The watershed is approximately 36,941 acres and the land use is made up of open space (48 percent), residential (27 percent), highway (14 percent), commercial (7 percent), and industrial (3 percent).

Garland: Upper Duck Creek Watershed. Located in southeastern Dallas County, with a portion in Richardson, west Garland, and down through Sunnyvale and Mesquite. The watershed is approximately 20,357 acres. The watershed land use is composed of residential (37 percent), commercial (16 percent), highway (approximately 21 percent), and industrial (13 percent).

Irving: Cottonwood Branch Watershed. Located in northeast Dallas County, which includes the northern half of Irving's city limits. The watershed is 14,494 acres and the land use is highway (38 percent), where DFW International Airport resides in the western side of the watershed. Also in the watershed segments of open areas (29 percent), commercial areas (17 percent), and industrial areas (4 percent).

Mesquite: Upper South Mesquite Creek Watershed. Located in eastern Dallas County and flows through the northern portion of Mesquite, Balch Springs, and Dallas. The watershed is 14,416 acres and the land use is predominantly residential (34 percent), highways (22 percent), commercial (16 percent), and a small portion of industrial (5 percent).

Plano: Upper White Rock Creek Watershed. Located in southwest Collin County, which includes portions of Plano (east of the Dallas North Tollway [DNT]), Frisco (north of SH 121), and Dallas (south of PGBT). The watershed is 18,750 acres and the land use is predominantly residential property (36 percent), open space (27 percent), highway (21 percent), commercial (15 percent), and industrial (less than 1 percent).

NTTA: Elm Fork above Denton Creek Watershed. Located in the southeastern portion of Denton County, with portions flowing into Dallas and Collin County. The watershed is 51,979 acres composed of portions of several cities: Plano, The Colony, Hebron, Carrollton, Lewisville, Double Oak, and Flower Mound. The watershed land use is predominantly open space (41 percent), commercial (10 percent), highways (16 percent), residential (28 percent), and industrial (3 percent).

NTTA: Elm Fork above Cottonwood Branch Watershed. Located in northwestern Dallas County and portions stretching into the northeastern corner of Tarrant County. The watershed includes portions of Grapevine, Coppell, Carrollton, and small portions of Farmers Branch and Dallas. The watershed is 14,942 acres and the land use is predominantly open space (37 percent), highway (24 percent), residential (13 percent), industrial (9 percent), and a small portion of commercial (9 percent).

TxDOT: Muddy Creek Watershed. Located in Collin County and part of northeastern Dallas County. The watershed includes portions of several cities: Allen, Garland, Parker, Murphy, Sachse, Rowlett, Wylie, Lucas, and St. Paul. The land use is predominantly open space (59 percent), residential (26 percent), industrial (1 percent), and commercial (3 percent).

3.1.2 Site Locations and Descriptions

ARLINGTON – Rush Creek Watershed (see Section 3.1.1 for a description of the watershed)

AR0701 Rush Creek at Sublett. Upstream monitoring site located between South Bowen Road and South Cooper Street where Sublett Road crosses Rush Creek. The conveyance is an unlined channel with medium-sized gravel. The subwatershed upstream of this monitoring location covers approximately 5,942 acres and is predominantly open space (41 percent) and residential (37 percent).

AR0702 Kee Branch at Pleasant Ridge. Midstream monitoring site located on the southeast corner of Martin High School at the intersection of West Pleasant Ridge and Kee Branch. Conveyance is a concrete, trapezoid channel. The subwatershed area is approximately 4,180 acres and is mostly residential land use (49 percent).

AR0703 Rush Creek at Woodland Park. Downstream monitoring site located south of Pioneer Parkway and the intersection of Woodland Park Blvd. and crosses Rush Creek. The conveyance is an unlined channel. The subwatershed drains approximately 8,165 acres and consists mainly of residential land use (51 percent).

DALLAS – Dallas East Bank Watershed (see Section 3.1.1 for a description of the watershed)

DL0701a Old River Channel at Regal Row. One of three upstream monitoring locations, located south of Regal Row on the west bank of the Old River Channel. The subwatershed drains a 36-acre area and the land use is predominantly commercial (37 percent). There is no residential land use in this subwatershed area.

DL0701b Cedar Branch at Cedar Springs Road. The second upstream monitoring site located just south of Cedar Springs Road on the east bank of Cedar Branch. The subwatershed drains approximately 816 acres and the land use is predominantly residential (63 percent) land use.

DL0701c Turtle Creek at Cedar Springs Road and Gillespie Avenue. The third upstream monitoring site located west of Cedar Springs on the south bank of Turtle Creek. The subwatershed drains 3,362 acres and the land use is predominantly residential (56 percent).

DL0703a Elm Fork Creek at Irving Blvd. One of two downstream monitoring locations situated south of Irving Boulevard on the east bank of Elm Fork Creek. The subwatershed drains approximately 1,943 acres and the land use is composed mainly of highway (31 percent).

DL0703b Old River Channel at Conveyor Lane. The second downstream monitoring site located north of Conveyor Lane on the south bank of Old River Channel. The subwatershed drains approximately 7,660 acres and the land use is predominantly of highway (32 percent).

FORT WORTH – Big Fossil Creek Watershed (see Section 3.1.1 for a description of the watershed)

BFC1 Big Fossil Creek at Blue Mound. Upstream monitoring site on Big Fossil Creek located at the intersection of Harmon Road off of Blue Mound Road just north of Saginaw. The subwatershed drains 4,079 acres and the land use is predominantly open space (64 percent).

BFC2 Big Fossil Creek at IH 35W. Midstream monitoring site located at the intersection of Big Fossil Creek and IH 35W, north of Western Center Boulevard. The subwatershed drains approximately 9,608 acres and the land use is predominantly open space (64 percent).

BFC3 Big Fossil Creek at Beach Street. Downstream monitoring site located at the intersection of Big Fossil Creek and Beach Street, north of Fossil Creek Boulevard. The subwatershed drains 6,292 acres and the land use is predominantly open space (54 percent).

GARLAND – Upper Duck Creek Watershed (see Section 3.1.1 for a description of the watershed)

GA0701 Duck Creek at Shiloh Bridge. Upstream monitoring site located south of Buckingham Road where Shiloh Road and Duck Creek intersect. The site is an unlined, natural channel. The subwatershed drains 5,039 acres and the land use is predominantly residential (38 percent).

GA0702 Forest North and Forest South. Midstream monitoring site located at Garland Avenue on Duck Creek in the middle section between Forest Lane South and Forest Lane North on the west side of the bridge. The conveyance at this site is an unlined, natural channel. The subwatershed drains approximately 2,434 acres and the land use is predominantly residential (46 percent).

GA0703 Duck Creek under La Prada Bridge. Downstream monitoring site located in Gatewood Park at the intersection of La Prada Drive bridge and Duck Creek. The conveyance is a natural creek bottom. The subwatershed drains approximately 7,112 acres and the land use is predominantly residential (38 percent).

IRVING – Cottonwood Branch Watershed (see Section 3.1.1 for a description of the watershed)

IR0701 Cottonwood Branch at Beltline Road. Upstream monitoring site located north of Walnut Hill Lane and the intersection of Beltline Road and Cottonwood Branch Creek. The conveyance is a concrete, trapezoidal, open channel. The subwatershed drains approximately 630 acres and the land use is predominantly open space (44 percent).

IR0702 Cottonwood Branch at Story Road. Midstream monitoring site located south of Walnut Hill Lane at the intersection of Story Lane and Cottonwood Branch Creek. The conveyance is an unlined, open channel. The subwatershed drains 643 acres and the land use is predominantly residential (38 percent).

IR0703 Cottonwood Branch at SH 114. Downstream monitoring site located south of Hidden Ridge Road at the intersection of SH-114 and Cottonwood Branch Creek. The conveyance is a concrete-lined channel. The subwatershed drains 1,595 acres and the land use is mainly open space (35 percent).

MESQUITE – Upper South Mesquite Creek Watershed (see Section 3.1.1 for a description of the watershed)

MS0701 South Mesquite Creek at North Mesquite Drive. Upstream monitoring site located west of IH 635 at the intersection of North Mesquite Drive and South Mesquite Creek, near the high school. The conveyance at this site consists of concrete culverts. The subwatershed drains 2,206 acres and the land use is predominantly residential (47 percent).

MS0702 North of New Market Road. Midstream monitoring site located north of New Market Road in Paschall Park near the bridge crossing over South Mesquite. The conveyance is a lined channel. The subwatershed drains 7,759 acres and the land use is predominantly residential (30 percent).

MS0703 North of Pioneer Road. Downstream monitoring site located north of Pioneer Road behind a residential development off Spring Mills Road and the South Mesquite Creek intersection. The conveyance is lined with gabion sides and low vegetative cover. The subwatershed drains 2,595 acres and the land use is predominantly residential (39 percent).

PLANO – Upper White Rock Creek Watershed (see Section 3.1.1 for a description of the watershed)

PL0702 Near Preston Hedgcoxe Plaza. Upstream monitoring site located east of Preston Road at the intersection of Hedgcoxe Road and Upper White Rock Creek. The conveyance is an unlined, natural channel. The subwatershed drains approximately 5,198 acres and the land use is predominantly open space (34 percent).

PL0703 South of Parker Road. Midstream monitoring site located east of Willow Bend Drive and the intersection of Parker Road and White Rock Creek. The conveyance is a lined, concrete channel. The subwatershed drains approximately 5,884 acres and the land use is predominantly residential (33 percent).

PL0704 North of Plano Parkway. Downstream monitoring site located west of Old Shepards Park at the intersection of Plano Parkway and White Rock Creek. The conveyance is a concrete channel with an earthen floor. The subwatershed drains approximately 2,944 acres and the land use is mostly residential (45 percent).

NORTH TEXAS TOLLWAY AUTHORITY (NTTA) – Elm Fork Watershed (see Section 3.1.1 for a description of the watersheds)

NTTA0701 Furneaux Creek at Broadway Street. Upstream monitoring site located off Broadway Street at the intersection of President George Bush Turnpike (PGBT) and Furneaux Creek. The conveyance is a natural creek bed. The subwatershed drains 6,568 acres and the land use is predominantly residential (43 percent).

NTTA0702 Elm Fork at PGBT. Downstream monitoring site located at the intersection of PGBT Elm Fork and the convergence with IH 635 (LBJ Freeway). The conveyance is a natural creek bed. The subwatershed drains approximately 12,951 acres and the land use is predominantly open space (32 percent).

TXDOT DALLAS – Muddy Creek Watershed (see Section 3.1.1 for a description of the watershed)

TX0701 Muddy Creek at Kirby Street. Upstream monitoring site located adjacent to Wylie High School and the intersection of Kirby Street and Muddy Creek. The conveyance is an unlined channel with high vegetative cover. The subwatershed drains 8,892 acres and the land use is predominantly open space (65 percent).

TX0702 Muddy Creek at SH-78. Downstream monitoring site located north of Williford Drive at the intersection of SH 78 crossing Muddy Creek. The conveyance is a natural, unlined channel. The subwatershed drains 549 acres and the land use is predominantly residential (44 percent).

3.2 YEAR 3 MONITORING

The following is a description of the Year 3 (2008) monitoring sites. Information regarding the watershed and monitoring sites was derived from the *Annual Monitoring Report – Year 3 – (January–December 2008)* (NCTCOG, 2009).

3.2.1 Watersheds

Arlington: Johnson Creek Watershed. Located mainly in Tarrant County, with a small portion in Dallas County. The watershed is 13,589 acres and the land use is predominantly residential (29 percent) and includes portions of highway (22 percent), commercial (21 percent), open areas (16 percent), and industrial (12 percent).

Dallas: Dallas West Bank Trinity River Watershed. Located in west Dallas County. The watershed is 22,453 acres and the land use is predominantly composed of residential (32 percent) and open space (26 percent).

Fort Worth: Sycamore Creek Watershed. Located in southern Tarrant County and flows northeastward through Fort Worth and into the West Fork Trinity River. The watershed is composed of 23,650 acres and the land use is predominantly composed of residential (35 percent) and open space (27 percent). The watershed also includes an estimated 10 percent of commercial land use and 5 percent industrial.

Garland: Spring Creek Watershed. Located in southeastern Collin County and north-central Dallas County. The watershed is 23,412 acres and the land use is predominantly residential (41 percent) and highway (23 percent). The watershed also includes open space (19 percent), commercial (15 percent), and industrial (2 percent).

Irving: Delaware Creek Watershed. Located in western Dallas County and includes the city boundaries of Dallas, Grand Prairie, and Irving. The watershed is 21,586 acres and the land use is predominantly open space (32 percent) and residential (27 percent). The watershed also includes highways (17 percent), commercial (18 percent), and industrial (4 percent).

Mesquite: North Mesquite Creek Watershed. Located in eastern Dallas County and partially within the Dallas city limits. The watershed is 23,939 acres and the land use is mostly open space (64 percent) and residential (17 percent) property. The watershed also includes residential (10 percent), commercial (5 percent), and industrial (2 percent) areas.

Plano: Brown Branch-Rowlett Creek Watershed. Located in southwestern Collin County and a small portion in northern Dallas County. The watershed is 16,243 acres and the land use is predominantly open space (38 percent) and residential (27 percent). The remainder of the watershed is highways (18 percent), commercial (10 percent), and industrial (7 percent).

NTTA: Spring Creek Watershed. Located in southeastern Collin County and north-central Dallas County. The watershed is 23,412 acres and the land use is predominantly residential (41 percent) and highway (23 percent). The other portions of the watershed include open space (19 percent), commercial (15 percent), and industrial (2 percent).

TxDOT: Floyd Branch-White Rock Creek Watershed. Located in north-central Dallas County, with portions in the Dallas city limits. The watershed is 21,090 acres and the land use is predominantly residential (44 percent) property and highway (22 percent) acreage. The watershed has portions of commercial (20 percent), open space (12 percent), and an industrial (3 percent) area.

3.2.2 Site Locations and Descriptions

ARLINGTON – Johnson Creek Watershed (see Section 3.2.1 for a description of the watershed)

AR0801 Johnson Creek at Matlock Road. Upstream monitoring site located west of Matlock Road approximately 260 feet from the HealthSouth Rehab Center in Arlington at the intersection of Medical Drive and Johnson Creek. The conveyance is a lined stream bed. The subwatershed drains a 647-acre area and the land use is predominantly commercial (31 percent) and residential (30 percent).

AR0802 Johnson Creek at Meadowbrook Park. Midstream monitoring site located south of East Abram Street at the intersection of Dugan Street and Johnson Creek. The conveyance is an unlined, natural channel. The subwatershed drains 4,838 acres and the land use is predominantly residential (44 percent) and commercial (22 percent).

AR0803 Johnson Creek at East Copeland Road. Downstream monitoring site located south of IH 30 near Six Flags Over Texas at the intersection of East Copeland Road and Johnson Creek. The conveyance is an open, unlined channel. The subwatershed drains 3,539 acres and the land use is predominantly commercial (28 percent) and highway (22 percent).

DALLAS – Dallas West Bank Trinity River Watershed (see Section 3.2.1 for a description of the watershed)

DL0801 Dallas West Bank at Bastille Road and La Reunion Parkway. Upstream monitoring site located east of Bastille Road at the intersection of La Reunion Parkway and the Trinity River. The subwatershed drains 896 acres and the land use is predominantly open space (52 percent) and industrial (22 percent).

DL0802 Dallas West Bank at Bickers Street. Midstream monitoring site located on the West Bank of the Trinity River in Kingsbridge Park approximately 200 feet north of Bickers Street between Hollystone Street and Rupert Street. The subwatershed drains 220 acres and the land use is predominantly open space (27 percent) and industrial (21 percent).

DL0803 Dallas West Bank at North Hampton Road. Downstream monitoring site located 1,000 feet west of North Hampton Road at the intersection of Perimeter Road and a channel stemming from the Trinity River. The subwatershed drains 5,287 acres and the land use is predominantly open space (32 percent) and industrial (21 percent) sites.

FORT WORTH – Sycamore Creek Watershed (see Section 3.2.1 for a description of the watershed)

SCY1 Sycamore Creek at IH 20 and IH 35W. Upstream monitoring site located south of IH 20 and the intersection of where IH 35W and IH Loop 820 converge over Sycamore Creek. The subwatershed drains 11,289 acres and the land use is predominantly residential (39 percent) and open space (29 percent).

SCY2 Sycamore Creek at Redbud Trail. Midstream monitoring site located in Cobb Park just east of Cobb Park Drive at the intersection of Redbud Trail and Sycamore Creek. The subwatershed drains 6,904 acres and the land use is predominantly of residential (30 percent) and open space (27 percent).

SCY3 Sycamore Creek at Scott Avenue. Downstream monitoring site located south of IH 30 and at the end of Scott Avenue where it meets Sycamore Creek. The subwatershed drains 5,510 acres and the land use is predominantly residential (33 percent) and highway (27 percent).

GARLAND – Spring Creek Watershed (see Section 3.2.1 for a description of the watersheds)

GA0801 Spring Creek at North Shiloh Road. Upstream monitoring site located south of West Campbell Road at the intersection of North Shiloh Road and Spring Creek. The conveyance is a natural, unlined channel. The subwatershed drains 18,458 acres and the land use is residential (43 percent) and highway (23 percent).

GA0802 Spring Creek at North Garland Road. Midstream monitoring site located in the Spring Creek Forest Reserve, west of PGBT at the intersection of North Garland Road and Spring Creek. The conveyance is a natural, unlined channel. The subwatershed drains 1,761 acres and the land use is predominantly open space (39 percent) and residential (31 percent).

GA0803 Spring Creek at President George Bush Turnpike. Downstream monitoring site located southwest of the Firewheel Golf Course at the intersection of PGBT and Spring Creek. The conveyance is a natural, unlined channel. The subwatershed drains 2,289 acres and the land use is predominantly residential (39 percent) and open space (24 percent).

IRVING – Delaware Creek Watershed (see Section 3.2.1 for a description of the watersheds)

IR0801 Delaware Creek at Pilgrim Drive. Upstream monitoring site located south of SH 183 along Pilgrim Drive behind a single-family residential area and Delaware Creek. The conveyance is a concrete, trapezoidal channel. The subwatershed drains 794 acres and the land use is predominantly residential (56 percent) and highway (23 percent).

IR0802 Delaware Creek at North Sowers Road. Midstream monitoring site located on the east side of North Sowers Road and Delaware, south of Pioneer Drive. The conveyance is a concrete, trapezoidal channel. The subwatershed drains 2,332 acres and the land use is predominantly residential (56 percent) and commercial (22 percent).

IR0803 Delaware Creek at East Oakdale Road. Downstream monitoring site located west of SH 12 at the intersection of East Oakdale Road and Delaware Creek. The conveyance is a natural, unlined channel. The subwatershed drains 1,496 acres and the land use is predominantly residential (46 percent) and highway (23 percent).

MESQUITE – North Mesquite Creek Watershed (see Section 3.2.1 for a description of the watersheds)

MS0801 North Mesquite Creek at Town East Boulevard. Upstream monitoring site located between North Galloway Avenue and Belt Line Road at the intersection of Town East Boulevard and North Mesquite Creek. The conveyance is a box culvert outfall. The subwatershed drains 697 acres and the land use is predominantly residential (52 percent) and highway (24 percent).

MS0802 North Mesquite Creek at SH 352. Midstream monitoring site located between Kearney Street and Winding Creek Drive at the intersection of SH 352 and North Mesquite Creek. The conveyance is a natural, unlined channel. The subwatershed drains a 3,366-acre area and the land use is predominantly open space (37 percent) and residential (30 percent).

MS0803 North Mesquite Creek at Edwards Church Road. Downstream monitoring site located between Cartwright Road and Clay Mathis Road at the intersection of Edwards Church Road and North Mesquite Creek. The conveyance is a concrete channel. The subwatershed drains 2,192 acres and the land use is predominantly residential (36 percent) and open space (31 percent).

PLANO – Rowlett Creek Watershed (see Section 3.2.1 for a description of the watershed)

PL0801 Rowlett Creek in Oak Point Park. Upstream monitoring site located east of Spring Creek Parkway and north of FM 2514/Parker Road along Rowlett Creek. The conveyance is an unlined channel. The subwatershed drains 27,094 acres and the land use is predominantly open space (62 percent) and residential (19 percent).

PL0802 Rowlett Creek at Park Boulevard. Midstream monitoring site located in Bob Woodruff Park at the intersection of Park Boulevard and Rowlett Creek. The conveyance is an unlined channel. The subwatershed drains 3,845 acres and the land use is predominantly open space (30 percent) and residential (29 percent).

PL0803 Rowlett Creek at Los Rios Boulevard. Downstream monitoring site located at the intersection of Los Rios Boulevard and Rowlett Creek. The conveyance is an unlined channel. The subwatershed drains 2,140 acres and the land use is predominantly residential (45 percent) and highway (27 percent).

NORTH TEXAS TOLLWAY AUTHORITY (NTTA) – Spring Creek Watershed (see Section 3.2.1 for a description of the watershed)

NTTA0801 Pittman Creek at President George Bush Turnpike. Upstream monitoring site located east of Alma Drive at the intersection of PGBT and Pittman Creek. The conveyance is an open channel. The subwatershed drains 3,242 acres and the land use is predominantly residential (51 percent) property and highway (23 percent).

NTTA0802 Spring Creek at West Campbell Road. Downstream monitoring site located south of West Campbell Road at the intersection of PGBT and a small tributary of Spring Creek. The conveyance is a box culvert outfall. The subwatershed drains 61 acres and the land use is predominantly open space (75 percent) and highway (24 percent).

TxDOT-DALLAS – Floyd Branch-White Rock Creek Watershed (see Section 3.2.1 for a description of the watershed)

TX0801 White Rock Creek at IH 635. Upstream monitoring site located just west of Park Central Drive at the intersection of IH 635 and White Rock Creek. The conveyance is a large unlined channel. The subwatershed drains 30,398 acres and the land use is predominantly residential (39 percent) and open space (23 percent).

TX0802 White Rock Creek at US 75. Downstream monitoring site located south of Forest Lane on the eastern side of the intersection of US 75 and White Rock Creek. The conveyance is an open channel. The subwatershed drains 2,246 acres and the land use is predominantly residential (52 percent) property and highway (20 percent).

3.3 YEAR 4 MONITORING

The following is a description of the Year 4 (2009) monitoring sites. Information regarding the watershed and monitoring sites was derived from the *Annual Monitoring Report – Year 4 – (January–December 2009)* (NCTCOG, 2010).

3.3.1 Watersheds

Arlington: Fish Creek-Mountain Creek Lake. The City of Arlington sampled in two watersheds for the 2009 monitoring year. Fish Creek-Mountain Creek Lake was the watershed that included monitoring of the upstream monitoring location. Fish Creek-Mountain Creek Lake is located within parts of Tarrant and Dallas County and is north of Joe Pool Lake. The watershed is 27,532 acres and the land use is predominantly composed of open space (42 percent) and residential (26 percent) property.

Arlington: Cottonwood Creek-Mountain Creek Lake. Cottonwood Creek-Mountain Creek Lake is the second watershed monitored in 2009. Cottonwood Creek-Mountain Creek Lake is the watershed that contained the midstream and downstream monitoring locations in 2009. Cottonwood Creek-Mountain Creek Lake is located south of IH 30 and lies partially in Tarrant County and Dallas County. The watershed is 18,853 acres and the land use is predominantly open space (28 percent) and residential (22 percent) property. The watershed also has highway (15 percent), commercial (14 percent), and industrial (8 percent).

Dallas: Five Mile Creek-Trinity River. Located in the southeast Dallas County. The watershed is 30,304 acres and the land use is predominantly open space (48 percent) and residential (20 percent) property. The watershed is also made up of highway (14 percent), commercial (10 percent), and industrial (5 percent).

Fort Worth: Marine Creek-West Fork Trinity River. Located in Tarrant County on the west side of Fort Worth city limits. The watershed is 20,017 acres and the land use is predominantly of open space (39 percent), highway (24 percent), residential (19 percent), commercial (8 percent), and industrial (8 percent).

Garland: Brown Branch-Rowlett Creek. Located in southwestern Collin County and extending into northern Dallas County. The watershed contained the upstream monitoring site and is made up of 16,253 acres. The land use is predominantly open space (38 percent) and residential (27 percent). Other portions of the watershed include highways (18 percent), commercial (10 percent), and industrial (7 percent).

Garland: Pittman Creek-Spring Creek. Located in southeastern Collin County and north-central Dallas County. The watershed contained the midstream monitoring site and is approximately 23,412 acres. The land is predominantly residential (41 percent) and highway (23 percent). Other portions of the watershed include open space (19 percent), commercial (15 percent), and industrial (1 percent).

Garland: Rowlett Creek-Lake Ray Hubbard. Located near Lake Ray Hubbard in Northeast Dallas County. The watershed contained the downstream monitoring site and is 17,257 acres. The land use is predominantly residential (32 percent) and open space (31 percent). Other portions of the watershed include highways (16 percent), commercial (8 percent), and industrial (3 percent).

Irving: Estelle Creek-Bear Creek. Located within Dallas County and northeastern Tarrant County. The watershed is 16,950 acres and the land use is predominantly open space (38 percent) and highway (26 percent). Other portions of the watershed include residential (16 percent), commercial (10 percent), and industrial (6 percent).

Mesquite: Upper South Mesquite Creek Watershed. Is located in eastern Dallas County and where it flows through the northern portion of Mesquite, Balch Springs, and Dallas. The watershed is 14,416 acres and the land use is predominantly residential (34 percent), highways (22 percent), commercial (16 percent), and a small portion of industrial (5 percent).

Plano: Pittman Creek-Spring Creek. Located in southeastern Collin County and north-central Dallas County. The watershed is 23,412 acres and the land use is predominantly residential (41.3 percent) and highway (23 percent) land use. The watershed also contains open space (19 percent), commercial (15 percent), and industrial (1 percent).

NTTA: Panther Creek-Little Elm Reservoir. Located northeast of Lewisville Lake with portions in Denton and Collin Counties. This watershed contained the upstream monitoring site and is 15,929 acres and the land use is predominantly open space (86 percent). The reminder of the watershed contained highway (5 percent) and residential (2 percent).

NTTA: Cottonwood Branch-Little Elm Reservoir. Located in Denton and Collin Counties and a portion of Lewisville Lake. This watershed contained the downstream monitoring site and is 19,210 acres and the land use is predominantly open space (54 percent). The remainder of the watershed includes highway (10 percent), residential (16 percent), and commercial (3 percent).

TxDOT: Prairie Creek-Trinity River. Located in southeast Dallas County. The watershed is 37,087 acres and the land use is predominantly open space (61 percent) land use.

3.3.2 Site Locations and Descriptions

ARLINGTON – Mountain Creek Watershed (see Section 3.3.1 for a description of the watersheds)

<u>AR0901 North Fish Creek at SH 360</u>. Upstream monitoring site located south of Mayfield Drive at the intersection of Watson Road and Fish Creek. The conveyance is a concrete-lined channel. The subwatershed drains approximately 2,033 acres and the land use is predominantly residential (52 percent) and highways (21 percent).

<u>AR0902 South Cottonwood Creek at Forum Drive</u>. Midstream monitoring site located just north of Arkansas Lane at the intersection of Forum Drive and Cottonwood Creek. The conveyance is a natural, unlined channel. The subwatershed drains 860 acres and the land use is predominantly commercial (29 percent) and highways (30 percent).

<u>AR0903 North Cottonwood Creek at Timberlake Drive</u>. Downstream monitoring site located north of Park Row Drive at the intersection of Timberlake Drive and Cottonwood Creek. The conveyance is a natural, unlined channel. The subwatershed drains 1,742 acres and the land use is predominantly residential (47 percent) and highways (24 percent).

DALLAS – Southeast Dallas Watershed (see Section 3.3.1 for a description of the watershed)

DL0901 Honey Springs Branch Creek at Easter Avenue and East Kiest Boulevard. Upstream monitoring site located north of East Kiest Boulevard at the intersection of Easter Avenue and Honey Springs Branch Creek. The conveyance is a natural, unlined channel. The subwatershed drains 93 acres and the land use is predominantly residential (65 percent) and highway (22 percent).

DL0902 Honey Springs Branch Creek at Bonnie View Road. Midstream monitoring site located at the corner of Fordham Road at the intersection of Bonnie View Road and Honey Springs Branch Creek. The conveyance is a natural, unlined channel. The subwatershed drains 543 acres and the land use is predominantly residential (59 percent).

DL0903 Honey Springs Branch Creek at Carbondale Street. Downstream monitoring site located between Burma Road and Yancy Street at the intersection of Carbondale Street and Honey Springs Branch Creek. The conveyance is a natural, unlined channel. The subwatershed drains 936 acres and the land use is predominantly residential (44 percent).

FORT WORTH – Marine Creek Watershed (see Section 3.3.1 for a description of the watershed)

MAR1 Marine Creek at Angle Avenue and West Long Avenue. Upstream monitoring site located approximately 330 feet east of Angle Avenue at the intersection of West Long Avenue and Marine Creek. The conveyance is a concrete-lined channel. The subwatershed drains 10,882 acres and the land use is predominantly open space (54 percent) and residential (19 percent).

MAR2 Marine Creek at Lincoln Park. Midstream monitoring site located just east of Angle Avenue at the intersection of SH 183 (NW 28th Street) and Marine Creek. The conveyance is a natural, unlined channel. The subwatershed drains 752 acres and the land use is predominantly highway (37 percent) and residential (36 percent).

MAR3 Marine Creek at Saunders Park. Downstream monitoring site located between North Main Street and Packers Avenue, at the intersection of NE 23rd Street and Marine Creek. The conveyance is a natural, unlined channel. The subwatershed drains 1,523 acres and the land use is predominantly highway (40 percent) and industrial (16 percent).

GARLAND – Rowlett Creek Watershed (see Section 3.3.1 for a description of the watershed)

GA0901 Rowlett Creek at Brand Road. Upstream monitoring site located just west of Brand Road in the Firewheel Golf Park near the entrance. The conveyance is a natural, unlined channel. The subwatershed drains 52,887 acres and the land use is predominantly open space (51 percent) and residential (24 percent).

GA0902 Rowlett Creek at SH 78. Midstream monitoring site located east of Northeast Parkway at the intersection of SH 78 and Rowlett Creek. The conveyance is a natural, unlined channel. The subwatershed drains 23,901 acres and the land use is predominantly residential (41 percent) and highways (23 percent).

GA0903 Rowlett Creek at Centerville Road/Castle Drive. Downstream monitoring site located just east of the cross-section of Castle Drive and Centerville Road inside of the City of Garland Park along Rowlett Creek. The conveyance is a natural, unlined channel. The subwatershed drains 5,047 acres and the land use is predominantly open space (47 percent) and residential (33 percent).

IRVING – Bear Creek Watershed (see Section 3.3.1 for a description of the watersheds)

IR0901 Bear Creek Tributary at Shady Grove Road. Upstream monitoring site located in a residential area east of Southwest Park at the intersection of Shady Grove Road and tributary of Bear Creek. The conveyance is a concrete-lined channel. The subwatershed drains 199 acres and the land use is predominantly residential (69 percent) and highways (17 percent).

IR0902 Bear Creek at Hunter Ferrell Road. Midstream monitoring site located off of Story Road at the intersection of Hunter Ferrell Road and Bear Creek. The conveyance is a natural, unlined channel. The subwatershed drains 58,739 acres and the land use is predominantly residential (36 percent) and open space (31 percent).

IR0903 Bear Creek at MacArthur Boulevard. Downstream monitoring site located north of IH 30 at the intersection of MacArthur Boulevard and Bear Creek. The conveyance is a natural channel with a gabion-lined wall. The subwatershed drains 840 acres and the land use is predominantly open space (59 percent) and commercial (18 percent).

MESQUITE – Upper South Mesquite Creek Watershed (see Section 3.3.1 for a description of the watershed)

MS0701 South Mesquite Creek at North Mesquite Drive. Upstream monitoring site located west of IH 635 at the intersection of North Mesquite Drive and South Mesquite Creek, near the high school. The conveyance at this site consists of concrete culverts. The subwatershed drains 2,206 acres and the land use is predominantly residential (47 percent).

MS0702 North of New Market Road. Midstream monitoring site located north of New Market Road in Paschall Park near the bridge crossing over South Mesquite. The conveyance is a lined channel. The subwatershed drains 7,759 acres and the land use is predominantly residential (30 percent).

MS0703 North of Pioneer Road. Downstream monitoring site located north of Pioneer Road behind a residential development off Spring Mills Road and the South Mesquite Creek crossing. The conveyance is lined with gabion sides and low vegetative cover. The subwatershed drains 2,595 acres and the land use is predominantly residential (39 percent).

PLANO – Spring Creek Watershed (see Section 3.3.1 for a description of the watersheds)

PL0901 Spring Creek at Legacy Drive. Upstream monitoring site located at the intersection of Legacy Drive and Spring Creek in Legacy Estates Park. The conveyance is a concrete-lined channel. The subwatershed drains 461 acres and the land use is primarily residential (63 percent).

PL0902 Spring Creek at 16th Street. Midstream monitoring site located at the intersection of 16th Street and Spring Creek, west of US 75 (Central Expressway) near Harrington Park. The conveyance is a natural, unlined channel. The subwatershed drains 5,129 acres and the land use is predominantly residential (52 percent) and highways (24 percent).

PL0903 Spring Creek at US 75 (Central Expressway). Downstream monitoring site located south of the Collin Creek Shopping Center at the intersection of Plano Parkway and Spring Creek. The conveyance is a natural, unlined channel. The subwatershed 537 acres and the land use is predominantly commercial (54 percent).

NORTH TEXAS TOLLWAY AUTHORITY (NTTA) – Panther Creek and Cottonwood Branch Watersheds (see Section 3.3.2 for a description of the watersheds)

NTTA0901 Panther Creek Tributary at the Dallas North Tollway. Upstream monitoring site located south of US-380 at the intersection of the DNT and a tributary of Panther Creek. This site was placed on the upstream side of the DNT and Panther Creek crossing to evaluate water quality in an undeveloped area prior to the DNT. The conveyance is a natural, unlined channel. The subwatershed drains 648 acres and the land use is predominantly open space (76 percent).

NTTA0902 Cottonwood Branch Tributary at the Dallas North Tollway. Downstream monitoring site located between El Dorado Parkway and FM 720 (Main Street) at the intersection of where the DNT crosses a tributary of Cottonwood Branch. The sampling location within the conveyance is at a concrete, lined channel. The subwatershed drains approximately 48 acres and the land use is predominantly open space (68 percent).

TEXAS DEPARTMENT OF TRANSPORTATION DALLAS – Prairie Creek Watershed (see Section 3.3.2 for a description of the watershed)

TX0901 Prairie Creek at US 175. Upstream monitoring site located west of Prairie Creek Road at the intersection of US 175 and Prairie Creek. The conveyance is a natural, unlined channel. The subwatershed drains 6,004 acres and the land use is predominantly residential (42 percent) and open space (21 percent).

TX0902 Prairie Creek at IH 20. Downstream monitoring site located east of Dowdy Ferry Road at the intersection of IH 20 and Prairie Creek. The conveyance is a natural, unlined channel. The subwatershed drains 4,559 acres and the land use is predominantly residential (45 percent) and open space (28 percent).

4.0 MONITORING ACTIVITIES

This section summarizes the monitoring activities for each year. Details of the individual monitoring results (e.g., laboratory data and field summaries) can be found in the annual reports for each respective year.

4.1 YEAR 2 MONITORING

In Year 2 (January 1 through December 31, 2007), all sites received qualifying rain events and were successfully monitored and analyzed. With the exception of additional maintenance due to flooding and vandalism, there were no issues encountered.

Section 3.1 provides a list of the sites and watersheds sampled during Year 2.

4.2 YEAR 3 MONITORING

In Year 3 (January 1 through December 31, 2008), all sites received qualifying rain events and were successfully monitored and analyzed. The following were exceptions to the year's monitoring:

- In 2008, the TCEQ announced that after July 1, 2008, the agency would only accept data from laboratories with National Environmental Laboratory Accreditation Conference (NELAC) certification. The FSO's laboratory, TTI Laboratories in Arlington, Texas, promptly submitted their application. Due to a backlog of applicants with TCEQ, they were unable to receive certification by July 1, 2008. Samples collected from July 1 through October 15 (the date TTI received certification) were sent to NELAC-certified labs, including A&B Labs, LCRA Environmental Laboratory, Envirodyne, Oxidor, and Talem, Inc. Certain samples for *E. coli* and total coliform were sent to the NELAC-certified labs and did not make the Quality Assurance Project Plan 8-hour holding time; however, they were within the TCEQ's 24-hour holding time limit.

- The October 6, 2008, IR0803 sample was analyzed and had an immeasurable amount of bacteria (E. coli). Since no numeric value was assigned, the FSO collected an additional grab sample on November 11, 2008, at this location. Since the other grab and composite samples were collected successfully during the October 6, 2008, event, no other parameters were collected.

- On March 3, 2008, the DL0802 sample collected was unable to be analyzed for *E. coli* and total coliform due to a laboratory accident. Both were resampled on April 18, 2008. The total coliform results for the sample collected on April 18, 2008, were originally reported as TNTC (too numerous to count), but the City of Dallas later confirmed that the result was greater than 20,000 cfu.

Section 3.2 provides a list of the sites and watersheds sampled during Year 3.

4.3 YEAR 4 MONITORING

In Year 4 (January 1 through December 31, 2009), all sites received qualifying rain events and were successfully monitored and analyzed. The following are issues and resolutions to specific events:

- The GA0902 site experienced severe vandalism during 2009. Garland and the FSO considered moving the site to a different location; however, a suitable alternative could not be located. Local law enforcement increased their presence at this area and equipment was promptly removed from the site after the quarterly sampling was complete. Samples were successfully collected from the site for all four quarters.

- During the first quarter of Year 4, the MS0901 site received a qualifying event. The FSO recorded a field pH level of 10.3 su at this site. The FSO notified the City of Mesquite, who immediately began their investigation upstream of the 0901 site. The high pH was tracked to a commercial center parking lot where they found concrete road base materials scattered across the ground. Further investigation revealed that pools of water in the parking lot contained pH levels of 10.1. This evidence suggested that the concrete road base materials and the parking lot were the source of the high pH. The responsible party was instructed by the City of Mesquite to begin mitigation procedures at once.

Section 3.3 provides a list of the sites and watersheds sampled during Year 4.

5.0 STATISTICAL ANALYSIS

Statistical analysis of the results, including summary statistics, box-whisker plots, and grouped statistical comparisons, are presented in this section. SYSTAT, Version 12 (Systat Software, Inc., San Jose, California, Copyright 2007) was used to perform the statistical analysis.

Diazinon and total cadmium were not included in the analyses because the parameters were not detected in 75 percent or greater of samples. For all other parameters, results reported from the lab as Undetected were included in the analyses using half of the lower detection limit. Bacteria sample results reported greater than (>) the upper detection limit also were included in the analyses as equal to the upper detection limit.

5.1 SUMMARY STATISTICS

Summary statistics are presented in Tables E-1 and E-2 in Appendix D. The summary statistics shown in Table E-1 were organized by sampling entity, watershed, and sampling station, and in Table E-2 were organized by sampling entity and watershed only. The summary statistics in Table E-1 included number of samples, sampling start and end dates, minimum value, maximum value, median, arithmetic mean, geometric mean, standard deviation, and coefficient of variation. The summary statistics in Table E-2 include the same statistics with the exception of the sampling start and end dates.

5.2 OUTLIER ANALYSIS

Outliers were identified as points that are more than three times the 75th percentile or less than three times the 25th percentile in accordance with Tukey, 1977.

Two outlier analyses were conducted. The first outlier analysis was conducted on all pooled data to identify suspected erroneous values that should be removed from the statistical analysis. This first outlier analysis revealed the outliers shown in Table 5-1, which were subsequently not included in the analyses presented in Sections 5.3 through 5.9. A field pH value was identified as an outlier through the method described above but was not removed from the analysis because it was verified in the field by a second instrument.

Table 5-1
Outliers Removed from Statistical Analyses

Parameter	Date of Collection	Location	Value
TDS	8/17/07	South Mesquite Creek	20,300 mg/L
Oil and Grease	2/5/08	Upper Rowlett Creek	623 mg/L
Oil and Grease	1/25/08	Spring Creek	516 mg/L
Oil and Grease	2/5/08	Spring Creek	316 mg/L
Oil and Grease	2/5/08	Middle White Rock Creek	266 mg/L
Oil and Grease	4/4/08	Johnson Creek	263 mg/L

The second outlier analysis was conducted through box-whisker plotting, described in Section 5.3. These plots identify additional outliers among the smaller groupings of data for visual purposes only. These plotted outliers were included in subsequent statistical analyses.

5.3 BOX-WHISKER PLOTS

Box-whisker plots were created by sorting the data by parameter, watershed, and entity in order to summarize the median, upper, and lower quartiles and the minimum and maximum data values. Figure 5-1 demonstrates the statistics shown by the box-whisker plot. The boxes represent the middle 50 percent of the data drawn between the lower and upper quartiles. The center of the notch within each box represents the median value. The notches represent the upper and lower 95 percent confidence interval. The whiskers are vertical lines drawn from the top and bottom of the boxes to the nearest data point that is less than 1.5 times from the 25th and 75th percentiles. These data points are represented by horizontal dashes (┴ or ┬) at the top or bottom of the line.

After grouping the data into smaller pools for comparison, some box-whisker plots identify outliers and suspected outliers due to the smaller groupings. These points were not removed from the statistical analyses and were considered to be legitimate cases sampled from the correct population. Suspected outliers are designated by asterisks (*). Outliers are designated by circles (o).

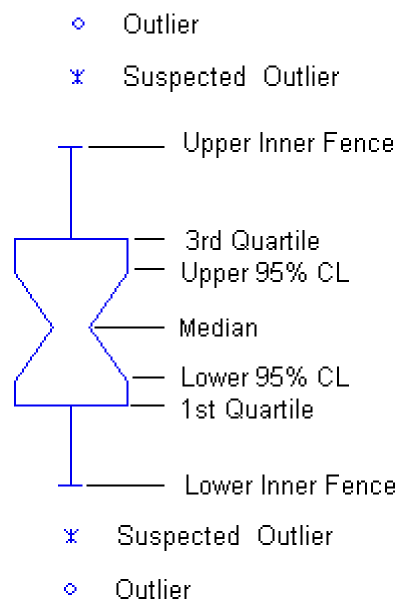

Figure 5-1
Box-Whisker Plot Legend

The box-whisker plots for each parameter and watershed with the observations grouped by entity are presented in Appendix E. Box-whisker plots for each parameter and monitoring station grouped by watershed and entity are provided in Appendix F.

5.4 DATA TRANSFORMATION

Prior to the statistical analyses presented in Sections 5.5 through 5.9, the data were natural logarithm (LN) transformed based upon the observation of storm water quality parameters to follow a log-normal distribution as evidenced by the Results of the Nationwide Urban Runoff Program Final Report (EPA, 1983), analyses of the National Storm Water Quality Database (Maestre, et al, 2005), analyses of the International Stormwater BMP Database (ASCE and EPA, 2000), and by the Final Summary Report Storm Water Discharge Characterization FY92 and FY93 (CDM, 1994).

5.5 STATISTICAL COMPARISONS

The data was grouped into various subgroups in order to conduct the statistical analyses discussed in Sections 5.6 through 5.9. When comparing two subgroups, the Student's *t*-test of statistical significance was used to compare means of equal variances (statistically determined through two sample variance tests). When comparing more than two subgroups, the analysis of variance (ANOVA) test of statistical significance was used to compare the means of equal variance (statistically determined through the

Levene's test). When the equal variance assumptions were not met, the medians from each station were compared using the non-parametric Kruskal-Wallis test for two or more subgroups.

The statistical significance tests identified differences among the subgroup means or medians at a confidence level of 95 percent. The probability or P-values are reported in Sections 5.6 through 5.9. If the P-value was less than 0.05, then there was a statistically-significant difference between the groups. Additional Tukey's and Bonferroni post-hoc tests were conducted to verify the significantly different stations within each watershed in cases with ANOVA P-values less than 0.05.

The raw data, including laboratory results, storm data, and sample collection date, is available for the Cities of Arlington, Garland, Irving, Mesquite, and Plano, and for NTTA and TxDOT in the 2007-2009 NCTCOG annual reports. The NCTCOG annual reports reference the appropriate data sources. The raw data for the Cities of Dallas and Fort Worth is available in Appendix G and was obtained from NCTCOG, as the data was collected independently and was not part of PBS&J's dataset.

5.6 COMPARISON OF NCTCOG WATERSHED STATIONS

Stations were statistically compared to each other within each watershed to determine if there was a statistically-significant difference among the upstream, midstream, and downstream stations. The P-values for all tests and parameters are presented in Table 5-2. Statistically-significant P-values are highlighted in yellow in the table and are discussed further in Section 6.0.

5.7 SEASONAL VARIABILITY ANALYSIS

The seasonal variability of data collected for each entity and for all entities grouped together was statistically compared by grouping the data by monitoring quarter and determining if there was a statistically-significant difference between the quarters. Monitoring quarters consisted of January through March, April through June, July through September, and October through December. One sample was collected at each station during each quarter. The P-values from all tests and parameters are presented in Table 5-3. Statistically-significant P-values are highlighted in yellow in the table and are discussed further in Section 6.0. Summary statistics for each group of data compared is provided in Appendix H.

5.8 ANTECEDENT DRY PERIOD ANALYSIS

The variability due to the length of the antecedent dry period was statistically compared by grouping the data into short (>72 hours and <168 hours) and long ($\geq$168 hours) antecedent dry periods to determine if there was a statistically-significant difference among the means of these groups for each entity and for all entities grouped together. The 72 hour timeframe was selected as the lowest antecedent dry period because samples were not allowed to be collected from shorter antecedent dry periods under the permit requirements. The 168 hour timeframe was selected as the cutoff for the long antecedent dry period group because at 168 hours, a pollutant build-up time of one week has occurred. The P-values from all tests and parameters are presented in Table 5-4. Statistically-significant P-values are highlighted in yellow in the table and are discussed further in Section 6.0. Summary statistics for each group of data compared is provided in Appendix I.

Table 5-2
Testing of Statistical Differences Among Stations
List of "P" Values

Entity	Arlington			Dallas			Fort Worth			Garland			Irving			Mesquite		NTTA				Plano			TxDOT		
Watershed	Rush Creek	Johnson Creek	Mountain Creek	Dallas East Bank	Dallas West Bank	Southeast Dallas	Big Fossil Creek	Lower Sycamore	Marine Creek	Duck Creek	Spring Creek	Lower Rowlett Creek	Cottonwood Branch	Delaware Creek	Big Bear Creek	South Mesquite Creek	North Mesquite Creek	Elm Fork	Spring Creek	Panther Creek	Cottonwood Branch	White Rock Creek	Upper Rowlett Creek	Upper Spring Creek	Muddy Creek	Middle White Rock Creek	Prairie Creek
Parameter								**Arsenic, Total**														**Arsenic**					
Levene's Test / Two Sample Variance Test	0.219	0.549	0.087	0.001	0.007	0.294	**	**	**	0.426	0.001	0.980	0.634	0.791	0.201	0.273	0.010	0.803	0.338	**	**	0.120	0.582	0.348	0.783	0.854	0.960
ANOVA / Student's t-Test	0.813	0.844	0.763	NA	NA	0.419	**	**	**	0.360	NA	0.424	0.217	0.957	0.553	0.903	NA	0.729	0.848	**	**	0.747	0.836	0.569	0.739	0.610	0.573
Kruskal-Wallis	NA	NA	NA	0.453	0.368	NA	**	**	**	NA	0.142	NA	NA	NA	NA	NA	0.859	NA	NA	**	**	NA	NA	NA	NA	NA	NA
Parameter								**Biochemical Oxygen Demand 5-Day**														**Biochemical Oxygen Demand**					
Levene's Test / Two Sample Variance Test	0.698	0.280	0.375	0.660	0.229	0.536	**	**	**	0.395	0.139	0.689	0.146	0.227	0.143	0.487	0.430	0.326	0.803	**	**	0.323	0.128	0.921	0.856	0.263	0.816
ANOVA / Student's t-Test	0.730	0.213	0.455	0.014	0.615	0.710	**	**	**	0.579	0.891	0.273	0.913	0.258	0.135	0.013	0.201	0.832	0.499	**	**	0.987	0.268	0.421	0.518	0.413	0.898
Parameter								**Chemical Oxygen Demand**														**Chemical Oxygen Demand**					
Levene's Test / Two Sample Variance Test	0.116	0.034	0.404	0.619	0.097	0.878	**	**	**	0.382	0.975	0.623	0.586	0.918	0.462	0.971	0.310	0.514	0.452	**	**	0.387	0.412	0.911	0.029	0.163	0.562
ANOVA / Student's t-Test	0.639	NA	0.588	0.171	0.934	0.849	**	**	**	0.240	0.049***	0.581	0.712	0.290	0.310	0.260	0.367	0.826	0.481	**	**	0.693	0.537	0.554	NA	0.868	0.254
Kruskal-Wallis	NA	0.236	NA	NA	NA	NA	**	**	**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	NA	NA	NA	1.000	NA	NA
Parameter								**Chromium, Total**														**Chromium**					
Levene's Test / Two Sample Variance Test	0.450	0.528	0.720	0.004	0.050	0.504	**	**	**	0.715	0.197	0.072	0.897	0.088	0.437	0.099	0.120	0.726	0.807	**	**	0.015	0.954	0.017	0.913	0.857	0.762
ANOVA / Student's t-Test	0.461	0.824	0.180	NA	0.046***	0.007	**	**	**	0.793	0.599	0.053	0.656	0.851	0.077	0.319	0.974	0.225	0.693	**	**	NA	0.782	NA	0.291	0.555	0.054
Kruskal-Wallis	NA	NA	NA	0.736	NA	NA	**	**	**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	0.384	NA	0.111	NA	NA	NA
Parameter								**Copper, Total**														**Copper**					
Levene's Test / Two Sample Variance Test	0.127	0.714	0.899	0.002	0.264	0.108	**	**	**	0.061	0.492	0.616	0.433	0.424	0.229	0.745	0.656	0.293	0.455	**	**	0.236	0.378	0.967	0.905	0.133	0.852
ANOVA / Student's t-Test	0.658	0.192	0.887	NA	0.564	0.565	**	**	**	0.461	0.392	0.488	0.909	0.183	0.451	0.816	0.729	0.374	0.589	**	**	0.810	0.514	0.897	0.913	0.346	0.982
Kruskal-Wallis	NA	NA	NA	0.276	NA	NA	**	**	**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	NA	NA	NA	NA	NA	NA
Parameter								**E. coli**														**E. coli**					
Levene's Test / Two Sample Variance Test	0.889	0.437	0.446	0.355	0.675	0.165	**	**	**	0.183	0.872	0.174	0.844	0.072	0.114	0.562	0.072	0.307	0.935	**	**	0.714	0.870	0.166	0.817	0.936	0.949
ANOVA / Student's t-Test	0.909	0.423	0.516	0.102	0.563	0.514	**	**	**	0.755	0.361	0.797	0.579	0.212	0.973	0.926	0.407	0.744	0.728	**	**	0.695	0.335	0.884	0.975	0.993	0.927
Kruskal-Wallis	NA	NA	NA	NA	NA	NA	**	**	**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	NA	NA	NA	NA	NA	NA
Parameter								**Field pH**														**Field pH**					
Levene's Test / Two Sample Variance Test	0.293	0.372	0.371	0.251	0.877	0.989	**	**	**	0.583	0.345	0.368	0.000	0.549	0.330	0.061	0.057	0.389	0.824	**	**	0.989	0.056	0.413	0.686	0.868	0.334
ANOVA / Student's t-Test	0.459	0.748	0.411	0.652	0.369	0.634	**	**	**	0.605	0.285	0.850	NA	0.333	0.339	0.576	0.110	0.810	0.836	**	**	0.991	0.209	0.847	0.699	0.866	0.533
Kruskal-Wallis	NA	NA	NA	NA	NA	NA	**	**	**	NA	NA	NA	0.867	NA	NA	NA	NA	NA	NA	**	**	NA	NA	NA	NA	NA	NA
Parameter								**Laboratory pH**														**Lab pH**					
Levene's Test / Two Sample Variance Test	0.184	0.852	0.431	0.257	**	**	**	**	**	0.436	0.976	0.863	0.270	0.466	0.521	0.713	0.972	0.835	0.053	**	**	0.202	0.535	0.605	0.479	0.369	0.714
ANOVA / Student's t-Test	0.815	0.947	0.266	0.496	**	**	**	**	**	0.464	0.652	0.930	0.538	0.417	0.001	0.215	0.987	0.523	0.911	**	**	0.205	0.899	0.229	0.332	0.780	0.496
Kruskal-Wallis	NA	NA	NA	NA	**	**	**	**	**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	NA	NA	NA	NA	NA	NA
Parameter								**Lead, Total**														**Lead**					
Levene's Test / Two Sample Variance Test	0.011	0.833	0.695	0.003	0.017	0.518	**	**	**	0.956	0.918	0.928	0.044	0.434	0.280	0.025	0.937	0.105	0.059	**	**	0.284	0.901	0.438	0.775	0.447	0.359
ANOVA / Student's t-Test	NA	0.720	0.734	NA	NA	0.070	**	**	**	0.405	0.843	0.646	NA	0.661	0.376	NA	0.304	0.920	0.598	**	**	0.591	0.883	0.649	0.781	0.730	0.039
Kruskal-Wallis	0.358	NA	NA	0.397	0.036	NA	**	**	**	NA	NA	NA	0.253	NA	NA	0.578	NA	NA	NA	**	**	NA	NA	NA	NA	NA	NA
Parameter								**Nitrogen, Total**														**Nitrogen, Total**					
Levene's Test / Two Sample Variance Test	0.366	0.984	0.961	0.047	0.706	0.194	**	**	**	0.042	0.760	0.658	0.118	0.284	0.051	0.410	0.031	0.495	0.978	**	**	0.058	0.273	0.035	0.094	0.568	0.868
ANOVA / Student's t-Test	0.811	0.903	0.954	NA	0.850	0.409	**	**	**	NA	0.657	0.057	0.471	0.558	0.269	0.378	NA	0.438	0.979	**	**	0.342	0.586	NA	0.932	0.618	0.487
Kruskal-Wallis	NA	NA	NA	0.222	NA	NA	**	**	**	0.664	NA	NA	NA	NA	NA	NA	0.196	NA	NA	**	**	NA	NA	0.625	NA	NA	NA
Parameter								**Oil and Grease**														**Oil and Grease**					
Levene's Test / Two Sample Variance Test	0.903	0.103	0.675	**	0.041	0.096	**	**	**	0.076	0.895	0.000	0.004	0.590	0.618	0.028	0.478	0.569	0.509	**	**	0.010	0.274	0.025	0.820	0.388	*
ANOVA / Student's t-Test	0.651	0.275	0.482	**	NA	0.659	**	**	**	0.574	0.996	NA	NA	0.507	0.946	NA	0.771	0.171	0.760	**	**	NA	0.698	NA	0.868	0.909	*
Kruskal-Wallis	NA	NA	NA	**	0.573	NA	**	**	**	NA	NA	0.241	0.241	NA	NA	0.191	NA	NA	NA	**	**	0.476	NA	0.086	NA	NA	*
Parameter								**Phosphorus, Dissolved**														**Phosphorus, Dissolved**					
Levene's Test / Two Sample Variance Test	*	0.200	0.381	0.329	0.257	0.621	**	**	**	0.007	0.965	0.941	0.966	0.746	0.210	0.475	0.808	0.688	0.524	**	**	0.007	0.691	0.158	0.587	0.866	0.691
ANOVA / Student's t-Test	*	0.220	0.802	0.376	0.349	0.421	**	**	**	NA	0.988	0.226	0.972	0.693	0.082	0.576	0.738	0.852	0.806	**	**	NA	0.703	0.923	0.821	0.937	0.740
Kruskal-Wallis	*	NA	NA	NA	NA	NA	**	**	**	0.368	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	0.368	NA	NA	NA	NA	NA
Parameter								**Phosphorus, Total**														**Phosphorus, Total**					
Levene's Test / Two Sample Variance Test	0.598	0.346	0.247	0.283	0.994	0.019	**	**	**	0.323	0.899	0.477	0.050	0.762	0.271	0.237	0.480	0.054	0.619	**	**	0.104	0.754	0.823	0.760	0.763	0.284
ANOVA / Student's t-Test	0.899	0.918	0.440	0.098	0.377	NA	**	**	**	0.731	0.974	0.137	NA	0.662	0.030	0.909	0.830	0.706	0.693	**	**	0.466	0.100	0.973	0.533	0.847	0.255
Kruskal-Wallis	NA	NA	NA	NA	NA	0.756	**	**	**	NA	NA	NA	0.330	NA	NA	NA	NA	NA	NA	**	**	NA	NA	NA	NA	NA	NA
Parameter								**Total Coliforms**														**Total Coliforms**					
Levene's Test / Two Sample Variance Test	0.269	0.293	0.534	0.507	0.629	0.033	**	**	**	0.982	0.640	0.857	0.689	0.175	0.565	0.687	0.117	0.782	0.173	**	**	0.156	0.405	0.922	0.410	0.387	0.583
ANOVA / Student's t-Test	0.834	0.209	0.552	0.098	0.460	NA	**	**	**	0.963	0.724	0.965	0.399	0.798	0.077	0.810	0.410	0.902	0.610	**	**	0.684	0.483	0.849	0.635	0.877	0.584
Kruskal-Wallis	NA	NA	NA	NA	NA	0.291	**	**	**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	NA	NA	NA	NA	NA	NA
Parameter								**Total Dissolved Solids**														**Total Dissolved Solids**					
Levene's Test / Two Sample Variance Test	0.660	0.469	0.985	0.211	0.305	0.535	**	**	**	0.518	0.941	0.794	0.312	0.110	0.348	0.133	0.983	0.586	0.953	**	**	0.442	0.106	0.264	0.127	0.227	0.675
ANOVA / Student's t-Test	0.752	0.442	0.965	0.408	0.652	0.704	**	**	**	0.607	0.984	0.639	0.183	0.674	0.086	0.261	0.465	0.227	0.458	**	**	0.380	0.480	0.217	0.099	0.669	0.972
Parameter								**Total Suspended Solids**														**Total Suspended Solids**					
Levene's Test / Two Sample Variance Test	0.477	0.153	0.328	0.757	0.304	0.913	**	**	**	0.008	0.042	0.834	0.555	0.156	0.493	0.195	0.214	0.067	0.660	**	**	0.830	0.475	0.061	0.086	0.560	0.673
ANOVA / Student's t-Test	0.697	0.433	0.986	0.409	0.608	0.186	**	**	**	NA	NA	0.686	0.001	0.646	0.453	0.057	0.478	0.968	0.471	**	**	0.564	0.648	0.580	0.953	0.374	0.248
Kruskal-Wallis	NA	NA	NA	NA	NA	NA	**	**	**	0.874	0.874	NA	NA	NA	NA	NA	NA	NA	NA	**	**	NA	NA	NA	NA	NA	NA
Parameter								**Zinc, Total**														**Zinc**					
Levene's Test / Two Sample Variance Test	0.107	0.004	0.672	0.077	0.474	0.064	**	**	**	0.146	0.474	0.864	0.987	0.343	0.220	0.013	0.618	0.711	0.145	**	**	0.193	0.852	0.033	0.764	0.879	0.112
ANOVA / Student's t-Test	0.578	NA	0.911	0.507	0.839	0.384	**	**	**	0.690	0.558	0.890	0.656	0.030	0.797	NA	0.943	0.271	0.193	**	**	0.250	0.019	NA	0.446	0.291	0.457
Kruskal-Wallis	NA	0.668	NA	NA	NA	NA	**	**	**	NA	NA	NA	NA	NA	NA	0.159	NA	NA	NA	**	**	NA	NA	0.618	NA	NA	NA

* No variation for the parameter listed between sampling sites within the watershed listed.
** Insufficient data for test.
***Post-hoc tests revealed no statistically significant difference.

Table 5-3
Seasonal Variation Analyses "P" Values

Entity	Arlington	Dallas	Fort Worth	Garland	Irving	Mesquite	NTTA	Plano	TxDOT	All
Parameter	**Arsenic, Total**									
Levene's Test	0.682	0.044	0.004	0.834	0.243	0.212	0.208	0.117	0.634	0.091
ANOVA	0.010	NA	NA	0.014	0.137	0.435	0.040	0.304	0.272	0.000
Kruskal-Wallis	NA	0.648	0.018	NA	NA	NA	NA	NA	NA	NA
Parameter	**Biochemical Oxygen Demand 5-Day**									
Levene's Test	0.615	0.216	0.039	0.002	0.394	0.417	0.945	0.273	0.710	0.091
ANOVA	0.168	0.351	NA	NA	0.446	0.452	0.281	0.425	0.132	0.289
Kruskal-Wallis	NA	NA	0.961	0.247	NA	NA	NA	NA	NA	NA
Parameter	**Chemical Oxygen Demand**									
Levene's Test	0.088	0.063	0.844	0.105	0.361	0.019	0.293	0.032	0.036	0.000
ANOVA	0.640	0.836	0.041	0.524	0.098	NA	0.575	NA	NA	NA
Kruskal-Wallis	NA	NA	NA	NA	NA	0.015	NA	0.064	0.163	0.001
Parameter	**Chromium, Total**									
Levene's Test	0.526	0.351	*	0.989	0.006	0.513	0.037	0.146	0.017	0.167
ANOVA	0.267	0.570	NA	0.359	NA	0.654	NA	0.835	NA	0.190
Kruskal-Wallis	NA	NA	0.015	NA	0.603	NA	0.667	NA	0.822	NA
Parameter	**Copper, Total**									
Levene's Test	0.145	0.859	0.089	0.152	0.192	0.715	0.530	0.549	0.118	0.967
ANOVA	0.154	0.594	0.210	0.175	0.165	0.605	0.473	0.600	0.130	0.180
Parameter	**E. coli**									
Levene's Test	0.148	0.728	0.549	0.004	0.057	0.115	0.081	0.006	0.003	0.001
ANOVA	0.003	0.219	0.315	NA	0.111	0.848	0.083	NA	NA	NA
Kruskal-Wallis	NA	NA	NA	0.002	NA	NA	NA	0.000	0.138	0.000
Parameter	**Field pH**									
Levene's Test	0.065	0.143	0.913	0.316	0.000	0.008	0.367	0.347	0.030	0.010
ANOVA	0.594	0.034	0.332	0.756	NA	NA	0.510	0.088	NA	NA
Kruskal-Wallis	NA	NA	NA	NA	0.374	0.302	NA	NA	0.333	0.382
Parameter	**Laboratory pH**									
Levene's Test	0.462	0.000	*	0.093	0.501	0.185	0.061	0.114	0.109	0.000
ANOVA	0.000	NA	*	0.031	0.572	0.001	0.587	0.154	0.006	NA
Kruskal-Wallis	NA	0.176	*	NA	NA	NA	NA	NA	NA	0.000
Parameter	**Lead, Total**									
Levene's Test	0.664	0.619	0.043	0.099	0.232	0.569	0.975	0.000	0.308	0.909
ANOVA	0.135	0.710	NA	0.593	0.168	0.224	0.458	NA	0.064	0.043
Kruskal-Wallis	NA	NA	0.015	NA	NA	NA	NA	0.886	NA	NA
Parameter	**Nitrogen, Total**									
Levene's Test	0.005	0.038	0.074	0.464	0.041	0.000	0.001	0.004	0.000	0.000
ANOVA	NA	NA	0.094	0.910	NA	NA	NA	NA	NA	NA
Kruskal-Wallis	0.446	0.526	NA	NA	0.373	0.506	0.600	0.005	0.278	0.003
Parameter	**Oil and Grease**									
Levene's Test	0.958	0.558	0.130	0.024	0.447	0.001	0.663	0.284	0.167	0.067
ANOVA	0.090	0.602	0.020	NA	0.582	NA	0.894	0.512	0.214	0.211
Kruskal-Wallis	NA	NA	NA	0.230	NA	0.504	NA	NA	NA	NA
Parameter	**Phosphorus, Dissolved**									
Levene's Test	0.220	0.004	0.604	0.657	0.034	0.252	0.739	0.000	0.019	0.076
ANOVA	0.311	NA	0.081	0.805	NA	0.901	0.918	NA	NA	0.002
Kruskal-Wallis	NA	0.507	NA	NA	0.039	NA	NA	0.042	0.317	NA
Parameter	**Phosphorus, Total**									
Levene's Test	0.426	0.292	0.024	0.783	0.908	0.134	0.528	0.536	0.160	0.013
ANOVA	0.514	0.450	NA	0.504	0.731	0.819	0.808	0.023	0.434	NA
Kruskal-Wallis	NA	NA	0.030	NA	NA	NA	NA	NA	NA	0.153
Parameter	**Total Coliforms**									
Levene's Test	0.544	0.035	0.016	0.099	0.360	0.000	0.549	0.436	0.056	0.058
ANOVA	0.002	NA	NA	0.000	0.041	NA	0.008	0.000	0.033	0.000
Kruskal-Wallis	NA	0.452	0.109	NA	NA	0.063	NA	NA	NA	NA
Parameter	**Total Dissolved Solids**									
Levene's Test	0.343	0.062	0.297	0.597	0.028	0.273	0.915	0.235	0.280	0.671
ANOVA	0.867	0.287	0.903	0.859	NA	0.179	0.737	0.160	0.664	0.297
Kruskal-Wallis	NA	NA	NA	NA	0.049	NA	NA	NA	NA	NA
Parameter	**Total Suspended Solids**									
Levene's Test	0.327	0.411	0.682	0.162	0.150	0.017	0.047	0.617	0.224	0.043
ANOVA	0.271	0.120	0.071	0.004	0.379	NA	NA	0.019	0.026	NA
Kruskal-Wallis	NA	NA	NA	NA	NA	0.909	0.325	NA	NA	0.051
Parameter	**Zinc, Total**									
Levene's Test	0.000	0.868	0.012	0.000	0.004	0.338	0.091	0.958	0.273	0.002
ANOVA	NA	0.635	NA	NA	NA	0.634	0.889	0.597	0.853	NA
Kruskal-Wallis	0.031	NA	0.235	0.450	0.092	NA	NA	NA	NA	0.518

* Insufficient data within one or more groups to conduct analyses.

Table 5-4

Antecedent Dry Period Analyses "P" Values

Entity	Arlington	Dallas	Fort Worth	Garland	Irving	Mesquite	NTTA	Plano	TxDOT	All
Parameter	**Arsenic, Total**									
Two Sample Variance T	0.256	0.482	**	0.678	0.510	0.830	0.335	0.304	0.709	0.706
Student's t-Test	0.752	0.032	**	0.616	0.758	0.595	0.124	0.738	0.018	0.274
Parameter	**Biological Oxygen Demand**									
Two Sample Variance T	0.046	0.109	**	0.325	0.650	0.987	0.427	0.169	0.806	0.281
Student's t-Test	NA	0.094	**	0.497	0.145	0.866	0.474	0.298	0.875	0.205
Kruskal-Wallis	0.826	NA	**	NA	NA	NA	NA	NA	NA	NA
Parameter	**Chemical Oxygen Demand**									
Two Sample Variance T	0.022	0.876	**	0.081	0.686	0.003	0.464	0.874	0.003	0.002
Student's t-Test	NA	0.364	**	0.960	0.077	NA	0.427	0.323	NA	NA
Kruskal-Wallis	0.215	NA	**	NA	NA	0.203	NA	NA	0.885	0.014
Parameter	**Chromium, Total**									
Two Sample Variance T	0.696	0.350	**	0.888	0.163	0.733	0.328	0.789	0.332	0.591
Student's t-Test	0.003	0.809	**	0.006	0.041	0.729	0.665	0.165	0.400	0.001
Parameter	**Copper, Total**									
Two Sample Variance T	0.883	0.491	**	0.703	0.025	0.711	0.718	0.610	0.481	0.101
Student's t-Test	0.434	0.580	**	0.506	NA	0.223	0.966	0.283	0.600	0.655
Kruskal-Wallis	NA	NA	**	NA	0.023	NA	NA	NA	NA	NA
Parameter	**E. coli**									
Two Sample Variance T	0.466	0.374	**	0.279	0.914	0.593	0.906	0.735	0.243	0.161
Student's t-Test	0.469	0.005	**	0.223	0.115	0.146	0.276	0.158	0.143	0.502
Parameter	**Field pH**									
Two Sample Variance T	0.759	0.219	**	0.241	0.238	0.105	0.521	0.503	0.352	0.953
Student's t-Test	0.034	0.002	**	0.595	0.849	0.193	0.974	0.366	0.984	0.743
Parameter	**Lab pH**									
Two Sample Variance T	0.791	0.280	**	0.047	0.261	0.940	0.563	0.063	0.034	0.619
Student's t-Test	0.331	0.196	**	NA	0.582	0.077	0.910	0.686	NA	0.705
Kruskal-Wallis	NA	NA	**	0.419	NA	NA	NA	NA	0.729	NA
Parameter	**Lead, Total**									
Two Sample Variance T	0.308	0.907	**	0.295	0.996	0.139	0.372	0.024	0.486	0.097
Student's t-Test	0.059	0.525	**	0.177	0.221	0.819	0.149	NA	0.770	0.724
Kruskal-Wallis	NA	NA	**	NA	NA	NA	NA	1.000	NA	NA
Parameter	**Nitrogen, Total**									
Two Sample Variance T	0.047	0.391	**	0.303	0.018	0.982	0.404	0.775	0.425	0.116
Student's t-Test	NA	0.523	**	0.765	NA	0.298	0.676	0.834	0.286	0.003
Kruskal-Wallis	0.446	NA	**	NA	0.028	NA	NA	NA	NA	NA
Parameter	**Oil and Grease**									
Two Sample Variance T	0.890	0.529	**	0.090	0.081	0.284	0.073	0.733	0.338	0.891
Student's t-Test	0.043	0.244	**	0.369	0.360	0.834	0.554	0.062	0.873	0.429
Kruskal-Wallis	NA	NA	**	NA	NA	NA	NA	NA	NA	NA
Parameter	**Phosphorus, Dissolved**									
Two Sample Variance T	*	0.614	**	0.000	0.632	0.469	0.970	0.046	0.438	0.110
Student's t-Test	*	0.433	**	NA	0.089	0.117	0.383	NA	0.145	0.019
Kruskal-Wallis	NA	NA	**	0.007	NA	NA	NA	0.710	NA	NA
Parameter	**Phosphorus, Total**									
Two Sample Variance T	0.243	0.409	**	0.675	0.944	0.068	0.400	0.976	0.614	0.350
Student's t-Test	0.121	0.043	**	0.448	0.910	0.517	0.822	0.396	0.006	0.487
Parameter	**Total Coliforms**									
Two Sample Variance T	0.186	0.188	**	0.133	0.024	0.006	0.231	0.013	0.496	0.000
Student's t-Test	0.438	0.002	**	0.587	NA	NA	0.310	NA	0.858	0.386
Kruskal-Wallis	NA	NA	**	NA	0.239	0.667	NA	0.849	NA	0.417
Parameter	**Total Dissolved Solids**									
Two Sample Variance T	0.563	0.140	**	0.215	0.427	0.850	0.881	0.120	0.058	0.240
Student's t-Test	0.044	0.079	**	0.106	0.121	0.397	0.334	0.019	0.949	0.113
Kruskal-Wallis	NA	NA	**	NA	NA	NA	NA	NA	NA	NA
Parameter	**Total Suspended Solids**									
Two Sample Variance T	0.160	0.317	**	0.947	0.018	0.493	0.487	0.005	0.500	0.426
Student's t-Test	0.240	0.958	**	0.322	NA	0.082	0.651	NA	0.534	0.637
Kruskal-Wallis	NA	NA	**	NA	0.344	NA	NA	0.159	NA	NA
Parameter	**Zinc, Total**									
Two Sample Variance T	0.014	0.138	**	0.676	0.003	0.001	0.347	0.688	0.657	0.071
Student's t-Test	NA	0.156	**	0.859	NA	NA	0.478	0.362	0.580	0.892
Kruskal-Wallis	0.617	NA	**	NA	0.542	0.009	NA	NA	NA	NA

* Insufficient data within groups to conduct analyses.

** No variation for the parameter listed between antecedent dry period groups.

5.9 STORM SIZE ANALYSIS

The variability due to the amount of rain associated with the sampling data was statistically compared by grouping the data into small (<0.5 inch) and large (≥0.5 inch) to determine if there was a statistically-significant difference among the means of these groups for each entity and for all entities grouped together. The duration of the rainfall events were within a 24-hour period. The amount of 0.5 inch was selected as the cutoff between small and large storm events because 0.5 inch is typically considered to convey the highest concentration of pollutants or to be the first flush. The P-values from all tests and parameters are presented in Table 5-5. Statistically-significant P-values are highlighted in yellow in the table and are discussed further in Section 6.0. Summary statistics for each group of data compared is provided in Appendix J.

Table 5-5

Storm Size Group Analyses "P" Values

Entity	Arlington	Dallas	Fort Worth	Garland	Irving	Mesquite	NTTA	Plano	TxDOT	All
Parameter	**Arsenic, Total**									
Two Sample Variance Te	0.578	0.534	0.559	0.306	0.163	0.233	0.626	0.232	0.696	0.065
Student's t-Test	0.469	0.769	0.574	0.215	0.825	0.560	0.721	0.464	0.913	0.269
Kruskal-Wallis	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Parameter	**Biochemical Oxygen Demand 5-Day**									
Two Sample Variance Te	0.991	0.570	0.727	0.310	0.225	0.026	0.636	0.128	0.275	0.027
Student's t-Test	0.880	0.181	0.033	0.771	0.679	NA	0.520	0.386	0.123	NA
Kruskal-Wallis	NA	NA	NA	NA	NA	0.450	NA	NA	NA	0.173
Parameter	**Chemical Oxygen Demand**									
Two Sample Variance Te	0.015	0.759	0.038	0.020	0.061	0.001	0.873	0.711	0.011	0.007
Student's t-Test	NA	0.257	NA	NA	0.409	NA	0.614	0.492	NA	NA
Kruskal-Wallis	0.470	NA	0.257	0.297	NA	0.065	NA	NA	0.078	0.009
Parameter	**Chromium, Total**									
Two Sample Variance Te	0.832	0.046	0.122	0.564	0.194	0.656	0.396	0.103	0.478	0.064
Student's t-Test	0.616	NA	0.722	0.569	0.194	0.041	0.609	0.690	0.653	0.327
Kruskal-Wallis	NA	0.545	NA	NA	NA	NA	NA	NA	NA	NA
Parameter	**Copper, Total**									
Two Sample Variance Te	0.162	0.292	0.962	0.065	0.001	0.533	0.537	0.013	0.570	0.000
Student's t-Test	0.091	0.410	0.427	0.061	NA	0.538	0.870	NA	0.876	NA
Kruskal-Wallis	NA	NA	NA	NA	0.372	NA	NA	0.657	NA	0.627
Parameter	**E. coli**									
Two Sample Variance Te	0.141	0.489	0.321	0.674	0.364	0.568	0.133	0.618	0.107	0.109
Student's t-Test	0.753	0.022	0.043	0.084	0.257	0.577	NA	0.966	0.556	0.293
Kruskal-Wallis	NA	NA	NA	NA	NA	NA	0.505	NA	NA	NA
Parameter	**Field pH**									
Two Sample Variance Te	0.108	0.278	*	0.650	0.032	0.244	0.268	0.018	0.257	0.112
Student's t-Test	0.005	0.920	*	0.593	NA	0.208	0.073	NA	0.191	0.011
Kruskal-Wallis	NA	NA	*	NA	0.116	NA	NA	0.298	NA	NA
Parameter	**Laboratory pH**									
Two Sample Variance Te	0.597	0.335	*	0.216	0.849	0.943	0.704	0.087	0.304	0.498
Student's t-Test	0.690	0.208	*	0.506	0.531	0.394	0.697	0.638	0.545	0.974
Kruskal-Wallis	NA	NA	*	NA	NA	NA	NA	NA	NA	NA
Parameter	**Lead, Total**									
Two Sample Variance Te	0.537	0.223	0.093	0.259	0.193	0.640	0.175	0.144	0.965	0.818
Student's t-Test	0.004	0.094	0.090	0.980	0.050	0.849	0.761	0.075	0.978	0.024
Kruskal-Wallis	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Parameter	**Nitrogen, Total**									
Two Sample Variance Te	0.388	0.069	0.073	0.008	0.001	0.252	0.763	0.146	0.028	0.561
Student's t-Test	0.285	0.202	0.782	NA	NA	0.047	0.826	0.258	NA	0.001
Kruskal-Wallis	NA	NA	NA	0.196	0.161	NA	NA	NA	0.004	NA
Parameter	**Oil and Grease**									
Two Sample Variance Te	0.759	0.816	0.845	0.153	0.339	0.944	0.076	0.549	0.300	0.860
Student's t-Test	0.950	0.807	0.190	0.084	0.329	0.364	0.334	0.348	0.042	0.135
Kruskal-Wallis	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Parameter	**Phosphorus, Dissolved**									
Two Sample Variance Te	0.280	0.577	0.582	0.515	0.548	0.097	0.435	0.004	0.951	0.439
Student's t-Test	0.995	0.221	0.021	0.664	0.879	0.306	0.672	NA	0.146	0.008
Kruskal-Wallis	NA	NA	NA	NA	NA	NA	NA	0.035	NA	NA
Parameter	**Phosphorus, Total**									
Two Sample Variance Te	0.590	0.625	0.438	0.450	0.688	0.004	0.417	0.007	0.162	0.075
Student's t-Test	0.840	0.005	0.009	0.392	0.169	NA	0.051	NA	0.002	0.000
Kruskal-Wallis	NA	NA	NA	NA	NA	0.234	NA	0.091	NA	NA
Parameter	**Total Coliforms**									
Two Sample Variance Te	0.183	0.089	0.401	0.009	0.027	0.212	0.000	0.097	0.105	0.926
Student's t-Test	0.862	0.204	0.002	NA	NA	0.090	NA	0.685	0.628	0.273
Kruskal-Wallis	NA	NA	NA	0.437	0.426	NA	0.794	NA	NA	NA
Parameter	**Total Dissolved Solids**									
Two Sample Variance Te	0.275	0.029	0.001	0.022	0.189	0.639	0.919	0.366	0.171	0.248
Student's t-Test	0.000	NA	NA	NA	0.683	0.000	0.752	0.315	0.427	0.000
Kruskal-Wallis	NA	0.159	0.636	0.001	NA	NA	NA	NA	NA	NA
Parameter	**Total Suspended Solids**									
Two Sample Variance Te	0.164	0.635	0.712	0.369	0.315	0.525	0.421	0.599	0.278	0.190
Student's t-Test	0.046	0.001	0.435	0.114	0.019	0.003	0.119	0.000	0.034	0.000
Kruskal-Wallis	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Parameter	**Zinc, Total**									
Two Sample Variance Te	0.000	0.523	0.313	0.669	0.046	0.994	0.948	0.850	0.650	0.246
Student's t-Test	NA	0.205	0.441	0.764	NA	0.400	0.216	0.609	0.992	0.082
Kruskal-Wallis	0.003	NA	NA	NA	0.975	NA	NA	NA	NA	NA

* Insufficient data within groups to conduct analyses.

6.0 DISCUSSION OF RESULTS

This section presents the results of the statistical analyses described in Section 5.0. Natural variations in storm water quality at each sampling location require large numbers of samples in order to confidently identify statistically-significant results and to provide the adequate power for the statistical tests. Although a large number of data was available overall, the data was divided into various subcategories for the analyses, resulting in fewer observations than desired. The primary goal of the analyses was to identify important factors determining in-stream storm water quality in the Dallas-Fort Worth Metroplex. The factors that were focused on were in-stream processes (sampling station), season, antecedent dry period, and storm size.

An assumption was made that the statistically-significant differences identified in Tables 5-3, 5-4, and 5-5 by monitoring entity follow the same general trends as those discussed below for the regional dataset as they are subsets of the dataset. In some cases, statistical differences were detected for one or more entities for various parameters but were not detected at the regional scale. These are likely the result of the smaller datasets associated with each entity and the number of comparisons conducted.

6.1 BOX-WHISKER PLOTS

The box-whisker plots displayed the observed concentrations for each parameter by sampling station, watershed, and entity. The box-whisker plots allowed visual inspection for differences between the groupings and provided guidance for the statistical analyses described below. The box-whisker plots of the data grouped by watershed (Appendix E) show that all watersheds sampled have relatively consistent concentrations when compared to each other. The trends between sampling stations can also be observed in the box-whisker plots provided in Appendix F for the respective parameter, entity, and watershed. The box-whisker plots of the data grouped by sampling station display a general tendency of decreasing concentrations from upstream to downstream sites. This was expected due to the dilution of the concentrations as the volume of runoff increased from upstream to downstream.

6.2 COMPARISON OF NCTCOG WATERSHED STATIONS

Due to the number of statistical comparisons required between stations for each watershed and the small amount of samples collected per station (generally four), the sample size was insufficient to draw firm conclusions regarding the differences in mean concentrations among sampling stations.

Table 6-1 identifies the detected differences between stations and whether the mean concentration increased or decreased between the stations listed. The "X" in the table indicates that there was a statistically significant difference found between the items noted in the corresponding column. Basic summary statistics for each station are provided in Appendix D. The statistical tests and results are provided in Appendix K. There were six instances of increasing concentration from an upstream position to a downstream position and eight instances of decreasing concentration from an upstream position to a downstream position. This finding indicates that, as stated above, a firm conclusion regarding the effect that in-stream processes have on concentrations cannot be made with the current dataset.

Table 6-1
Statistically-Significant Differences Between Stations by Watershed and Parameter

Parameter	Watershed	Stations (Upstream to Downstream)	Upstream/ Midstream	Upstream/ Downstream	Midstream/ Downstream	Change Between Stations
Biochemical Oxygen Demand	Dallas East Bank	DL 0701a DL 0701b DL 0701c				*
	South Mesquite Creek	MS 0701 MS 0901 MS 0702 MS 0902 MS 0703 MS 0903		X	X	Decrease
Chromium, Total	Southeast Dallas	DL 0901 DL 0902 DL 0903	X	X		Increase
Laboratory pH	Big Bear Creek	IR 0901 IR 0902 IR 0903	X	X		Increase
Lead, Total	Dallas West Bank	DL 0801 DL 0802 DL 0803	X	X		Decrease
	Prairie Creek	TX 0901 TX 0902		X		Increase
Phosphorus, Total	Big Bear Creek	IR 0901 IR 0902 IR 0903	X			Decrease
Total Suspended Solids	Cottonwood Branch	IR 0701 IR 0702 IR 0703		X	X	Decrease
Zinc, Total	Delaware Creek	IR 0801 IR 0802 IR 0803			X	Decrease
	Upper Rowlett Creek	PL 0801 PL 0802 PL 0803	X			Increase

* The sampling sites were located on independent tributaries and could not be classified into upstream, midstream, and downstream stations. There was a statistically-significant decrease between DL 0701b and both DL 0701a and DL 0703c.

6.3 SEASONAL VARIABILITY ANALYSIS

The data was evaluated by monitoring entity and also combined into a regional dataset to identify statistically-significant differences between quarters (Table 5-3). Table 6-2 identifies the statistically-significant differences between quarters for the combined analysis (regional results) and whether the mean concentration increased or decreased between the quarters listed. Basic summary statistics for each quarter and parameter are provided in Appendix H. The statistical tests and results are provided in Appendix L.

Generally, the parameters exhibited an increasing trend from the first quarter to the third quarter, except for laboratory pH and total nitrogen, which exhibited a decreasing trend. The most statistically-significant differences occurred between the first and third quarters, the coldest months and the warmest months, respectively. These results suggest that water quality may be adversely impacted during the warm months as expected. The decrease in in-stream total nitrogen concentration from the cold months to the warm months potentially could be associated with the decreased rainfall observed during the monitoring period, which may have affected nitrogen application to yards and open spaces. The decrease in laboratory pH may be an indication of seasonal changes; however, since a similar trend was not detected in field pH, a firm conclusion cannot be made regarding this parameter.

6.4 ANTECEDENT DRY PERIOD ANALYSIS

The data was evaluated by monitoring entity and also combined into a regional dataset to identify statistically-significant differences between antecedent dry periods (Table 5-4). Table 6-3 identifies the statistically-significant differences between antecedent dry period groups for the combined analysis (regional results) and whether the mean concentration increased or decreased between the groups. Basic summary statistics for each antecedent dry period group and parameter is provided in Appendix I. The statistical tests and results are provided in Appendix M. There were nearly two times more storm events that occurred with a long antecedent dry period than with a short antecedent dry period.

Table 6-2

Statistically Significant Differences Between Quarters by Constituent

Parameter	Quarter 1 / Quarter 2	Quarter 1 / Quarter 3	Quarter 1 / Quarter 4	Quarter 2 / Quarter 3	Quarter 2 / Quarter 4	Quarter 3 / Quarter 4
Arsenic, Total		Increase		Increase		Decrease
Chemical Oxygen Demand		Increase	Increase			
E. coli	Increase	Increase	Increase	Increase		Decrease
Laboratory pH	Decrease	Decrease	Decrease	Increase	Increase	
Lead, Total					Decrease	
Nitrogen, Total	Decrease	Decrease	Decrease			
Phosphorus, Dissolved	Increase	Increase				
Total Coliforms	Increase	Increase	Increase			Increase

Table 6-3
Statistically-Significant Differences in Antecedent Dry Period Groups by Parameter

Parameter	Change Between Short and Long Antecedent Dry Period Groups
Chemical Oxygen Demand	Increase
Chromium, Total	Decrease
Nitrogen, Total	Decrease
Phosphorus, Dissolved	Increase

Contrary to expected findings, the results indicated that for the majority of entities and parameters, antecedent dry period had little influence on the in-stream water quality, and that for total chromium and total nitrogen there was a decrease in the in-stream concentration for long antecedent dry periods as compared to short antecedent dry periods. Typical storm water quality theory suggests that long antecedent dry periods allow more pollutants to build up in the watershed and contributes to higher pollutant loadings during the following storm event.

However, rainfall patterns during the sampling periods were uncharacteristic of normal years. According to the National Weather Service, the Dallas/Fort Worth mean annual precipitation is 33 inches. During the 2007, 2008, and 2009 monitoring periods, the area received 50, 27, and 41 inches of rainfall, respectively.

Due to the unbalanced sample size of the antecedent dry-period groups, the uncharacteristic rainfall patterns during the sample period, and the relatively small time span and sample size, a definite conclusion could not be made regarding the effect that antecedent dry period had on in-stream pollutant concentrations.

6.5 STORM SIZE ANALYSIS

The data was evaluated by monitoring entity and also combined into a regional dataset to identify statistically-significant differences between storm sizes (Table 5-5). Table 6-4 identifies the statistically-significant differences between mean concentrations associated with storm sizes for the combined analysis (regional results) and whether the mean concentration increased or decreased between the groups. Basic summary statistics for each storm size and parameter is provided in Appendix J. The statistical tests and results are provided in Appendix N.

Table 6-4
Statistically-Significant Differences in Storm Size Group by Parameter

Parameter	Change Between Small and Large Storm Size Groups
Chemical Oxygen Demand	Increase
Field pH	Decrease
Lead, Total	Increase
Nitrogen, Total	Decrease
Phosphorus, Dissolved	Increase
Phosphorus, Total	Increase
Total Dissolved Solids	Decrease
Total Suspended Solids	Increase

As expected, larger storms generally contributed to higher in-stream concentrations, except for field pH, total nitrogen, and total dissolved solids, which exhibited a decrease from small to large storms. The decrease in total dissolved solids is expected as this indicates that there is a limited supply of dissolved solids in the watershed and that during larger storms the supply is exhausted and diluted. The decrease in field pH could be a result of slightly acidic soil addition to the stream or from a decreased pH of the rain water itself. The range of storms sampled was not large enough to make firm conclusions regarding the relationship between storm size and in-stream pollutant levels.

6.6 COMPARISON TO OTHER DATA SOURCES

As of this writing, EPA and the State of Texas have not yet promulgated wet-weather in-stream water quality standards that would be appropriate to use as benchmarks or comparison values for the results of this study. At this time, because no such benchmarks or comparison values exist, the monitoring in this study did not reveal any pollutants of significant concern. Because of the lack of wet-weather benchmarks or comparison values, the NCTCOG in-stream monitoring data was statistically compared to NSQD data, NCTCOG outfall monitoring data, and CRP data.

The NSQD is a collection of NPDES storm water outfall data assembled from permit holders by the University of Alabama and the Center for Watershed Protection. The NSQD data represents a 10-year monitoring period from more than 200 municipalities across the country (Maestre and Pitt, 2005). The NSQD data was collected from storm water discharge points by regulated large and medium MS4's during wet weather conditions.

The NCTCOG outfall monitoring data was collected by the United States Geological Service (USGS) from 26 storm water outfalls sampled over seven storm events. It is independent of the NCTCOG in-stream data discussed in the previous sections. The NCTCOG outfall monitoring data was a subset of the NSQD data and was thus removed from that dataset.

Lastly, the CRP data was assembled by the Trinity River Authority and TCEQ through state funds for in-stream water quality monitoring, evaluation, and decision-making. The CRP data represents ambient, in-stream concentrations during mostly dry conditions. A map of the CRP stations and NCTCOG in-stream stations is provided in Figure 6-1.

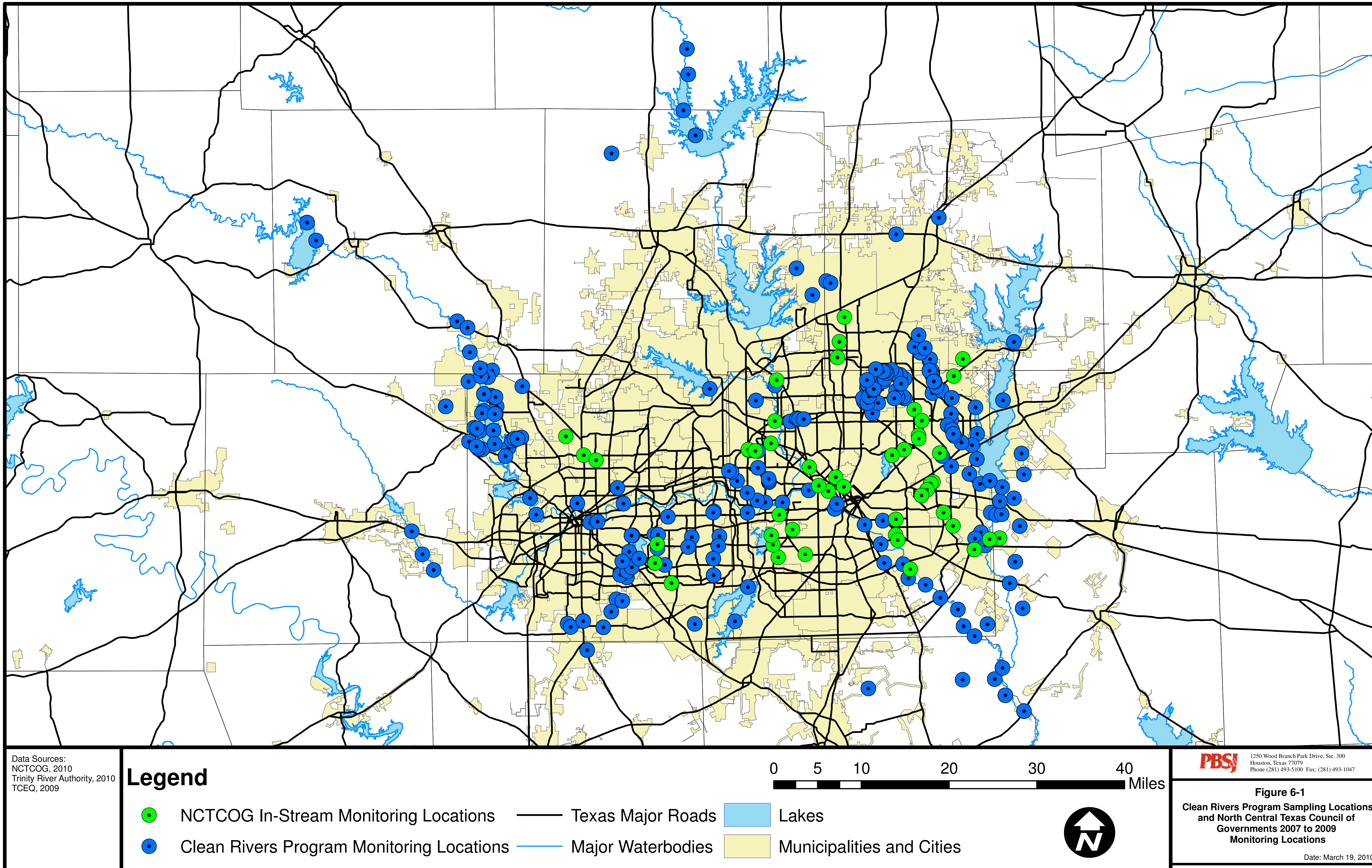

Figure 6-1

Clean Rivers Program Sampling Locations and North Central Texas Council of Governments 2007 to 2009 Monitoring Locations

For the comparisons discussed below, outliers as defined in Section 5.2 were removed from all datasets. Outliers identified through the outlier analyses are provided in Appendix O. In addition, all zero values were removed from the dataset.

Box-whisker plots for each parameter and dataset are provided in Appendix P. NCTCOG 1 represents the NCTCOG outfall monitoring data and NCTCOG 2 represents the NCTCOG in-stream monitoring data. Field pH and laboratory pH were combined into a single group for the NCTCOG in-stream and CRP datasets.

Each dataset was statistically compared to the NCTCOG in-stream data to determine if there were statistically-significant differences. The data were compared using the non-parametric Kruskal-Wallis test (comparison of medians) and were compared both including undetected lab results (at half of the lower detection limit) and excluding undetected results. The test identified statistically-significant differences at a confidence level of 95 percent. Basic summary statistics for the datasets both including undetected lab results and excluding undetected results are provided in Table 6-5. The statistical tests and results for the datasets including undetected lab results are provided in Appendix Q. The statistical tests and results for the datasets excluding undetected lab results are provided in Appendix R.

Table 6-6 identifies the statistically-significant differences between NCTCOG in-stream data and CRP, NCTCOG outfall data, and NSQD data for each parameter. The table identifies whether the median of the listed dataset was statistically higher or lower than the NCTCOG in-stream data.

The first column of the table compares the NCTCOG in-stream data to the CRP data, which represents data collected in-stream during dry weather. Compared to the CRP data, total arsenic, biochemical oxygen demand (5-day), chemical oxygen demand, total copper, *E. coli*, total nitrogen, dissolved phosphorus, total phosphorus, total coliforms, total dissolved solids, total suspended solids, and total zinc were found to be at slightly elevated concentrations within the NCTCOG in-stream dataset. Total chromium, total lead, oil and grease, and pH exhibited the opposite with values lower than the in-stream data. The results show that the in-stream concentration of most pollutants is generally higher than samples collected in-stream during dry weather. Also, dry weather samples are typically collected from the surface, while the storm water in-stream samples were collected from the lower water column.

The second and third columns of Table 6-6 compare the NCTCOG in-stream data to the NCTCOG NSQD outfall data, which represent data collected during wet weather from storm water outfalls. Total arsenic, total copper, *E. coli*, total nitrogen, pH, total coliforms, total dissolved solids, and total suspended solids were found to be at slightly elevated concentrations within the NCTCOG in-stream dataset. Biochemical oxygen demand (5-day), chemical oxygen demand, total chromium, total lead, oil and grease, dissolved phosphorus, total phosphorus, and total zinc were found to be generally at concentrations lower than the comparison outfall datasets (NSQD and NCTCOG outfall data). The results indicate that for some parameters the in-stream concentration of pollutants may be higher than for samples collected from storm water outfalls but that for other parameters the in-stream concentration may be lower.

As mentioned above, EPA and the State of Texas have not yet promulgated wet-weather in-stream water quality standards that would be appropriate to use as benchmarks or comparison values for the results of this study. If such standards did exist, exceedences observed in this monitoring effort might require those pollutants to be considered pollutants of concern. At this time, because no such benchmarks or comparison values exist, the monitoring in this study did not reveal any pollutants of significant concern.

In addition to the comparative approach used to determine pollutants of concern discussed above, MS4 managers are expected to consider impairment pollutants (those pollutants contributing to a 303(d) listing) as pollutants of concern in the implementation of their storm water management program.

Table 6-5
Summary Statistics for All Datasets Compared

Paramer	Arsenic, Total (mg/L)				Biochemical Oxygen Demand 5-Day (mg/L)			
Dataset	CRP	NCTCOG 1	NCTCOG 2	NSQD	CRP	NCTCOG 1	NCTCOG 2	NSQD
No. of Samples	903	156	285	1384	5004	172	285	4384
Median with Undetects	0.002	0.002	0.003	0.002	2.00	7.20	6.49	8.60
No. of Samples	628	156	137	487	3581	172	243	4125
Median without Undetects	0.002	0.002	0.005	0.003	2.90	7.20	8.03	9.00
Paramer	Chemical Oxygen Demand (mg/L)				Chromium, Total (mg/L)			
Dataset	CRP	NCTCOG 1	NCTCOG 2	NSQD	CRP	NCTCOG 1	NCTCOG 2	NSQD
No. of Samples	1416	180	285	4662	1507	161	285	1289
Median with Undetects	24.00	64.00	32.10	53.00	0.005	0.006	0.004	0.005
No. of Samples	1336	177	264	4624	791	161	149	810
Median without Undetects	25.00	64.00	37.05	53.35	0.008	0.006	0.006	0.007
Paramer	Copper, Total (mg/L)				E. coli (colonies/100 mL)			
Dataset	CRP	NCTCOG 1	NCTCOG 2	NSQD	CRP	NCTCOG 1	NCTCOG 2	NSQD
No. of Samples	1668	169	285	4756	6482	--	281	160
Median with Undetects	0.005	0.009	0.023	0.012	80	--	1370	1000
No. of Samples	1163	168	224	4157	6185	--	248	149
Median without Undetects	0.007	0.009	0.027	0.016	88	--	1850	1200
Paramer	pH (su)				Lead, Total (mg/L)			
Dataset	CRP	NCTCOG 1	NCTCOG 2	NSQD	CRP	NCTCOG 1	NCTCOG 2	NSQD
No. of Samples	54195	351	499	1957	1712	178	285	4194
Median with Undetects	8.00	7.60	7.70	7.36	0.010	0.021	0.006	0.010
No. of Samples	54195	351	499	1957	938	176	161	3328
Median without Undetects	8.00	7.60	7.70	7.36	0.019	0.021	0.012	0.013
Paramer	Nitrogen, Total (mg/L)				Oil and Grease (mg/L)			
Dataset	CRP	NCTCOG 1	NCTCOG 2	NSQD	CRP	NCTCOG 1	NCTCOG 2	NSQD
No. of Samples	262	182	282	681	--	98	281	1845
Median with Undetects	1.90	1.46	2.01	1.61	--	2.00	1.27	3.00
No. of Samples	259	182	246	643	--	98	85	1206
Median without Undetects	1.90	1.46	2.39	1.70	--	2.00	3.77	4.89
Paramer	Phosphorus, Dissolved (mg/L)				Phosphorus, Total (mg/L)			
Dataset	CRP	NCTCOG 1	NCTCOG 2	NSQD	CRP	NCTCOG 1	NCTCOG 2	NSQD
No. of Samples	2390	182	284	2587	12870	182	284	7004
Median with Undetects	0.020	0.145	0.050	0.103	0.090	0.250	0.150	0.240
No. of Samples	1709	181	147	2147	12052	182	211	6835
Median without Undetects	0.031	0.150	0.110	0.130	0.098	0.250	0.220	0.240
Paramer	Total Coliforms (colonies/100 mL)				Total Dissolved Solids (mg/L)			
Dataset	CRP	NCTCOG 1	NCTCOG 2	NSQD	CRP	NCTCOG 1	NCTCOG 2	NSQD
No. of Samples	--	--	281	174	311	168	284	3146
Median with Undetects	--	--	75,000	6,350	220.0	60.0	290.0	82.0
No. of Samples	--	--	266	161	311	168	284	3131
Median without Undetects	--	--	89,550	9,000	220.0	60.0	290.0	82.0
Paramer	Total Suspended Solids (mg/L)				Zinc, Total (mg/L)			
Dataset	CRP	NCTCOG 1	NCTCOG 2	NSQD	CRP	NCTCOG 1	NCTCOG 2	NSQD
No. of Samples	11413	166	285	6354	1642	178	285	4692
Median with Undetects	14.2	79.0	78.0	60.0	0.021	0.090	0.043	0.080
No. of Samples	10828	166	274	6309	1425	178	263	4557
Median without Undetects	15.5	79.0	83.6	60.0	0.024	0.090	0.047	0.083

Table 6-6
Statistically-Significant Differences of Medians Between NCTCOG In-Stream Data and Other Datasets

Parameter	CRP		NCTCOG Outfall Data		NSQD	
	With Non-Detects	Without Non-Detects	With Non-Detects	Without Non-Detects	With Non-Detects	Without Non-Detects
Arsenic, Total	Lower	Lower	Same	Lower	Lower	Lower
Biochemical Oxygen Demand (5-Day)	Lower	Lower	Same	Lower	Higher	Higher
Chemical Oxygen Demand	Lower	Lower	Higher	Higher	Higher	Higher
Chromium, Total	Higher	Higher	Higher	Same	Higher	Same
Copper, Total	Lower	Lower	Lower	Lower	Lower	Lower
E. coli	Lower	Lower	N/A	N/A	Same	Lower
pH	Higher	Higher	Same	Same	Lower	Lower
Lead, Total	Same	Higher	Higher	Higher	Higher	Same
Nitrogen, Total	Same	Lower	Lower	Lower	Lower	Lower
Oil and Grease	N/A	N/A	Higher	Lower	Higher	Same
Phosphorus Dissolved	Lower	Lower	Higher	Same	Higher	Same
Phosphorus, Total	Same	Lower	Higher	Higher	Higher	Higher
Total Coliforms	N/A	N/A	N/A	N/A	Lower	Lower
Total Dissolved Solids	Same	Same	Lower	Lower	Lower	Lower
Total Suspended Solids	Lower	Lower	Same	Same	Lower	Lower
Zinc, Total	Lower	Lower	Higher	Higher	Higher	Higher

Note: "Higher" or "Lower" indicate statistically significant higher or lower median concentrations than the NCTCOG in-stream levels. Half of the detection limit was used for the analyses conducted using non-detected results. "Same" indicates median concentrations in which there was no statistically significant difference detected. "N/A" indicates parameters that were not collected within the dataset listed.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 SUMMARY OF DATA

Monitoring activities were conducted during Years 2 through 4 in various receiving streams in the North Central Texas region during wet weather conditions. The monitoring activities resulted in the collection of samples from 285 storm events (total), which were subsequently analyzed for total arsenic, biochemical oxygen demand (5-day), chemical oxygen demand, total copper, *E. coli*, field pH, laboratory pH, total lead, total nitrogen, oil and grease, dissolved phosphorus, total phosphorus, total coliforms, total dissolved solids, total suspended solids, and total zinc.

7.1.1 Baseline Data

The NCTCOG in-stream wet weather data is unique in that it is not of the traditional outfall monitoring for storm water permitting compliance. Since this is the first of its kind in the North Central Texas area, the data will serve as a baseline for future wet weather in-stream monitoring activities in the region.

7.1.2 Summary of Statistics

Summary statistics were computed for the data and an analysis was conducted to determine outlier values for each parameter, which were subsequently removed from the dataset. Box-whisker plots were created to graphically depict the data and aid in the interpretation of the results. Generated box-whisker plots depict outliers and suspected outliers calculated from the remaining dataset. The data were log-transformed and statistical tests were used to assess the impact of sampling location, season, antecedent dry period, and storm size on pollutant concentrations. The statistical tests comparing results from different seasons, antecedent dry periods, and storm sizes were conducted on monitoring data grouped by permittee and on all monitoring data grouped together by entity in a regional dataset.

The results of the statistical analyses examining variability of water column concentrations along each sampled stream reach and between watersheds showed that all watersheds sampled have relatively consistent pollutant concentrations when compared to each other and that water column concentrations generally decrease when moving from upstream sampling sites to downstream sampling sites.

The results of the statistical analyses examining concentration differences among seasons showed that water quality was generally worse during the warm months. This was expected since during higher temperatures bacteria are found at higher concentrations and quiescent settling occurs at a slower rate.

While traditional storm water quality science suggests that longer antecedent dry periods allow for more pollutant build-up to occur and tends to lead to higher pollutant concentrations during runoff events, results from this monitoring did not show any statistically-significant difference between long and short antecedent dry periods. Due to the large difference between the number of samples within the short antecedent dry period group and the long antecedent dry period group, the uncharacteristic rainfall patterns during the sample period, the relatively small time span of the monitoring period, and the small number of sampling results, it was harder to detect a difference between concentrations obtained from storms with long or short antecedent dry periods.

Lastly, when examining storm size, larger storms generally produced higher in-stream concentrations for most parameters. The number and range of storm sizes sampled was small; therefore, more data is needed to positively identify statistical differences between larger and smaller storms.

7.1.3 Summary of Datum Comparisons

NCTCOG in-stream monitoring data was statistically compared to NSQD data (Maestre and Pitt, 2005), NCTCOG outfall monitoring data, and the CRP data. The NSQD and NCTCOG data represents wet weather storm water outfall data, and the CRP data represents ambient, in-stream data collected during dry weather conditions.

The results of the comparison of NCTCOG in-stream data show that the in-stream concentration of most pollutants is generally higher than samples collected in-stream during dry weather. The results of the comparison of NCTCOG in-stream data with the NSQD and NCTCOG outfall data indicate that for some parameters, the in-stream concentration of pollutants may be higher than for samples collected from storm water outfalls; however, for other parameters the in-stream concentration may be lower.

7.2 ASSESSING BMP EFFECTIVENESS USING MONITORING RESULTS

Regional monitoring results obtained during the first permit term, coupled with narrative and descriptive information regarding the extent and type of storm water quality BMP's will serve as a baseline that can be used to evaluate the effectiveness of regional BMP implementation on in-stream water quality and health in the future.

For example, public educational efforts may be having a positive impact on turf grass management that may be seen in declining nutrient levels over time, as compared to baseline results. Bacteria levels may show declines in future years as a result of pet waste management efforts.

Going forward, it is recommended that BMP implementation efforts be documented during future monitoring periods. To reasonably assess the impact of BMP implementation on stream quality during wet weather, significant information on BMP implementation within monitored watersheds will need to be obtained and recorded. Information should include: the geographic scope of BMP implementation, the types of BMP's used, the number of BMP's implemented, the pollutants targeted for removal by deployed BMP's, and the level of maintenance BMP's receive. This information should be obtained as frequently as warranted as storm water quality management programs may be altered to address total maximum daily load (TMDL) implementation and to implement changes to MS4 permits. At a minimum, BMP implementation efforts should be documented on a five-year cycle.

While monitoring of inflows and outflows at a particular structural BMP can help determine the technological capabilities of a particular structural approach, regional in-stream monitoring can help evaluate the effect of both non-structural and structural BMP's implemented across a watershed. Regional in-stream monitoring can help assess the benefits of illicit discharge detection and elimination programs, educational programs, street sweeping programs, construction site runoff control programs, and similar efforts.

7.3 FUTURE MONITORING RECOMMENDATIONS

PBS&J recommends that NCTCOG continue the regional wet-weather in-stream water quality monitoring approach. The approach provides many benefits and allows MS4 operators to assess wet weather water quality in a holistic manner. The current approach leverages MS4 operator resources, coordinates monitoring efforts, and builds on the baseline data obtained during the first cycle of regional monitoring. In continuing the regional watershed approach, the participants should consider the program recommendations discussed below.

7.3.1 Increase Number of Samples per Site

Currently, the entities are selecting up to three watersheds where monitoring occurs quarterly for one year. The sites are then rotated to a new watershed after every calendar year over a three-year monitoring period. This approach yielded four results per site during this five-year permit cycle. Four results per site limits the strength of statistical analyses and comparisons. In order to develop a more robust dataset to perform stronger statistical analyses, the entities will need to have more data. PBS&J recommends increasing the frequency of monitoring during each year or limiting the number of watersheds monitored during the permit term. If the entities limited the number of watersheds during the permit term, they may consider monitoring the same watershed for at least two years before moving to a new watershed. Monitoring the same watershed over more years in a permit term will provide a higher number of results more quickly than continuing to rotate through multiple watersheds over several permit terms.

7.3.2 Refine Sampling Site Selection Process

Sampling site selection process should be refined to address concerns expressed by EPA and TCEQ. These concerns stem from the need to restore impaired waters and to achieve the goals of the Clean Water Act. Sampling sites should also be selected to foster longer-term monitoring to allow for a larger number of samples to be obtained at each site. Site selection criteria that should be considered include the following:

- Locate sampling sites within impaired watersheds. This will help with assessing TMDL implementation and restoration efforts.

- Focus on measuring concentrations of pollutants causing watershed impairments. This will help with assessing TMDL implementation and restoration efforts. Coupled with flow measurements, it will help to assess achievement of waste load allocations.

- Locate sampling sites in locations that foster long-term deployment and that will minimize chances of vandalism. This will assist in deploying equipment for longer periods of time to allow collection of a higher number of samples at each site. During this monitoring term, there were several instances of vandalism and flooding of the equipment. These events lead to multiple equipment deployments and redeployments, repeated sampling efforts, increased maintenance costs, and at times, the replacement of equipment. Vandalism and flooding events increase the cost of regional monitoring.

- Select sites that will allow for long-term flow monitoring or those that already have flow measurement gauge stations nearby. Flow data collected during the in-stream monitoring event is required to calculate pollutant loads, which is critical to assessing conformance with TMDL provisions and waste load allocations (WLA). Stream flow monitoring equipment might differ from those used in outfall monitoring and what was currently used in this program. Consideration and planning for developing flow monitoring sites will be necessary, but will allow for pollutant loads to be developed. In addition, consideration should be given to selecting sites near existing USGS gauging stations.

7.3.3 Monitor Shared Watersheds at the Same Time

There may be occasions when two or more entities will desire to conduct monitoring within the same waterbody, but within their respective political boundaries. When this situation arises, the entities should plan to monitor that waterbody at the same time. This will provide opportunities to get a larger "snapshot" of the waterbody as it goes through different political boundaries. In the last monitoring cycle, there were instances where the opportunity to characterize a longer reach of a stream at the same time was missed.

7.3.4 Increase Spatial and Temporal Coverage as Much as Possible

To the extent feasible, given limited fiscal resources, the entities should seek to increase spatial coverage by deploying more sampling stations throughout the watersheds of interest. Spatial coverage should be governed by the factors outlined in Section 7.3.2 (priorities/factors). Once spatial coverage is determined, the entities should seek to monitor the same locations for as long as feasible to provide more temporal coverage. The longer the monitoring continues at a particular site, the higher the n-value becomes and the more robust the statistical analysis becomes.

7.3.5 Conduct Paired Watershed Study

In addition to in-stream regional monitoring, the entities may consider conducting watershed studies that would evaluate differences in in-stream conditions (water chemistry, benthic populations, habitat, etc.) between two watersheds with extensive BMP implementation and a watershed with little BMP implementation. This could be done in concert with monitoring site selection or it could be accomplished retrospectively if monitored watersheds are found to have different levels of BMP implementation.

7.3.6 Conduct Rapid Bio-assessments to Augment Water Chemistry Monitoring

Although Dallas and Fort Worth are already performing rapid bio-assessments, other entities may consider performing bio-assessments in their respective watersheds as well. Rapid bio-assessments are usually conducted in dry weather conditions and evaluate additional parameters (e.g., water chemistry, benthic and nekton populations, in-stream habitat, etc.) that the wet weather in-stream monitoring does not. The recent National Research Council (NRC) report *Urban Stormwater Management in the United States* (NRC, 2008) includes discussion of this concept and recommends the use of biological end points for storm water management programs and biological monitoring for assessing program progress. Chapter 3 of the NRC report provides a summary of biological responses to chemical, hydrologic, physical, biological, and energy-related stressors arising from urbanization, along with a discussion of how biological monitoring can play a role in watershed management. The end of Chapter 3 recommends that storm water management approaches should include all stressors in an integrated manner, which can be accomplished through monitoring using Rapid Bioassessment Protocols.

7.3.7 Update Monitoring Plan/QAPP Yearly

The entities should consider a review of the monitoring plan and quality assurance project plan at the end of every year for improvements. The review may evaluate items such as relaxed holding times for samples delivered to the laboratory, the ability to move monitoring sites within a short distance if the area changes significantly or becomes a target for vandalism or flooding, or upgrading to advances in technology (advances in equipment where the integrity of the sample and method of collection is still high).

7.3.8 Revise Monitored Pollutants

Diazinon was not detected in the first round of monitoring, suggesting that it could be omitted from future rounds. This is appropriate because diazinon has been banned and is no longer in use as a pesticide in the studied watersheds. Carbaryl could be added to replace diazinon as a pesticide surrogate. Carbaryl is a commonly-used pesticide in Texas (Merchant, 2007). Since diazinon and other pesticides are being phased out, the EPA believes that the use of carbaryl may increase. Carbaryl has been found in both agricultural and urban watersheds (EPA, 2007).

Cadmium was detected at very low levels and in less than 25 percent of the samples collected. PBS&J recommends dropping cadmium from the list of monitoring parameters.

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Appendix A

RWWCP Proposal

North Central Texas Council of Governments

January 30, 2003

Steve Ligon
Storm Water Permits Team Leader
TCEQ – MC 148
PO Box 13087
Austin, TX 78711-3087

Dear Mr. Ligon:

On behalf of the regional storm water monitoring program, I would like to thank you for your willingness to work with the north central Texas regional storm water participants as we strive to develop a more effective monitoring program. It is our desire to devise a scientific, watershed-based regional monitoring program that yields useful information in a cost-effective manner. We want a monitoring program that goes beyond simple permit compliance and would like to involve all watershed partners in a cooperative monitoring effort that allows everyone to contribute to a solution in proportion to their share of the problem. We will continue to explore that possibility with our watershed partners. You are already aware of the cooperative study that has been initiated with the Trinity River Authority using Clean Rivers funding to statistically compare ambient water quality data with storm water runoff to gain a better understanding of their relationships. The study may also help us coordinate site locations so that future comparisons of state and local ambient water quality sampling with our regional storm water sampling can be more informative. As the Phase II cities get their permits next year and begin implementing their storm water management programs, they may see the benefit in partnering with us as we establish a baseline of water quality for some of our watersheds during high flows.

Please find attached a brief summary of our region's cooperative monitoring activities to date and how certain decisions about sampling seasons and parameters were made. We hope you find it informative and that it addresses any questions you might have had about the regional monitoring program. You will also find a copy of our proposed plan for the next permit term. In order to launch a coordinated monitoring program as outlined in the attached plan it will likely be necessary for participants to begin collecting data before they have obtained their permit from TCEQ. As was provided by EPA during the first round of permitting, we would like to ask for a letter of endorsement from TCEQ that grants participants credit for their sampling efforts that would be applied toward their eventual TPDES permit.

Please accept the attached regional monitoring plan as a formal submittal for use by reference in each of the regional participant's permit application submittals. We look forward to your letter of endorsement for the regional approach that gives coverage to permittees and allows our monitoring efforts to proceed on a timely basis. We also look forward to working with you and your storm water permits team as we craft a beneficial storm water management program.

Sincerely,

David Gattis
Chairman, RSWMCC
Assistant City Manager, City of Benbrook

616 Six Flags Drive, Centerpoint Two
P.O. Box 5888, Arlington, Texas 76005-5888
817/640-3300 FAX: 817/640-7806 ♻ recycled paper

Summary of the Dallas-Fort Worth Regional Monitoring Program

Application Phase

In response to EPA's National Pollutant Discharge Elimination System (NPDES) Phase I storm water rules in 1990, the seven largest cities (Dallas, Fort Worth, Arlington, Irving, Garland, Plano and Mesquite) and two Texas Department of Transportation Districts (TxDOT) in the Dallas-Fort Worth area worked through the North Central Texas Council of Governments (NCTCOG) to develop a regional strategy for storm water management. A component of this strategy was to develop a regional monitoring network in cooperation with the U.S. Geological Survey (USGS) to address the wet weather monitoring requirement of the new NPDES rules. A network of 30 outfall sites was established in small (160 acres or less) drainage basins, each categorized by a single predominant land use (11 residential, 9 industrial, 6 commercial, and 4 highway). Five sites each were located in the cities of Dallas and Fort Worth, four in Arlington, three each in Garland, Irving, Mesquite, and Plano and four sites along major highway thoroughfares. During 1992-1994, seven storm events were sampled from each site resulting in 210 storm event samples being collected from the network. These samples were each analyzed for 188 properties and constituents. The 188 parameters included all those required in 40 CFR 122 for wet weather monitoring as well as diazinon, and major ions recommended by the USGS for ion balance. The monitoring network of 30 sites was developed through negotiations with EPA Region 6. A reduction in the number of sites over what was typically required in storm water permits was offset by the doubling of samples per site (3 required vs. 7 taken) and the collective pooling and summation of data to commonly characterize local urban runoff. The cities and TxDOT used the data in the application process for NPDES storm water permits.

Permit Phase

Following the application phase monitoring effort, the regional program participants enlisted the assistance of a regional consultant team and the USGS to analyze the existing monitoring network and to design an improved program based on technical merit and cost-effectiveness. The network analysis utilized non-parametric statistical analysis techniques to assess the differences between stations based on land use and season on a constituent-by-constituent basis. The network analysis identified 15 statistically redundant monitoring sites in the existing 30-site network. These sites were discontinued. Recognizing the inherent weakness in extrapolating the discharge quality of single land use outfalls to the behavior of an entire municipal separate storm sewer system (MS4) and then using this information to characterize potential impacts to receiving water quality, additional monitoring regimes were proposed. These included the monitoring of discharges of outfalls from larger mixed land use watersheds, the sampling in-stream of major urban waterways, and the monitoring of a developing watershed. Seven new sites were identified in these various categories (3 mixed land use, 3 in-stream and 1 developing site).

An evaluation of historical climatic data was conducted using EPA's SYNOP program to characterize storm characteristics and rainfall in the region. Seasons were subsequently defined for the north central Texas area as a September to October wet season, a November to February dry season, a March to June wet season, and a July to August dry season. This translated into two six-month periods characterized by a major and a minor component. The eventual permits required that sampling occur at least once in each six-month period.

Through the regional consultant team and the USGS, the parameters were extensively analyzed based on land use as well as seasonality. The analysis indicated that almost half of the 188 parameters monitored by the North Central Texas MS4s during the application phase were never detected. Of those detected, only a small portion were found in concentrations or at a frequency that warranted further study. The revised parameter list of 22 properties and constituents of priority concern were proposed to and approved by EPA Region 6 (meeting with Monica Burrell and Brent Larsen, May 26th, 1994). These are listed in Table 1 along with respective collection methods (i.e. grab or composite). Two of the listed parameters, nickel and phenol are specific to TxDOT-Dallas District's permit due to elevated levels of these constituents in their samples during the application phase. Also listed but not reported to EPA were 9 parameters used by USGS for ion balance and QA/QC.

Table 1: REGIONAL PARAMETER SET

PARAMETER	ACTION	METHOD OF COLLECTION
BOD, 5-Day	✧	Composite
COD	✧	Composite
TSS	✧	Composite
TDS	✧	Composite
Cadmium	✧	Composite
Copper	✧	Composite
Lead	✧	Composite
Zinc	✧	Composite
Dissolved Phosphorus	✧	Composite
Total Phosphorus	✧	Composite
Total Kjedahl Nitrogen (TKN)	✧	Composite
NO_3 + NO_2	✧	Composite
Total Nitrogen	✧	Composite (derived from TKN + NO_3 + NO_2)
Chromium	✧	Composite
Arsenic	✧	Composite
Fecal coliform	✧	Grab
Fecal streptococcus	✧	Grab
pH	✧	Grab
Diazinon (Cities only)	✧	Composite
Oil and Grease	✧	Grab
Water Temp.	✧	Grab
Total Hardness	✧	Composite
Phenol (TxDOT - Dallas only)	✧	Composite
Nickel (TxDOT - Dallas only)	✧	Composite
Calcium	×	Composite
Magnesium	×	Composite
Sodium	×	Composite
Potassium	×	Composite
Alkalinity	×	Composite
Sulfate	×	Composite
Conductance	×	Composite
Chloride	×	Composite
Nitrite Nitrogen	×	Composite

✧Reported to EPA
× Collected for Regional Program QA/QC but not reported to EPA

The compilation and analysis of data from the regional network was the capstone of the regional effort. Because the eight participants were sharing data from their respective sites for analysis, the participants realized the importance of coordinated data analysis. On a regional basis, the North Central Texas MS4s produced an annual summary review of the data collected from the permit-term network.

A five-year regional wet weather monitoring program for North Central Texas was approved by EPA Region 6. The original seven municipalities and TxDOT-Dallas District received NPDES storm water permits from EPA and participated in this program (TxDOT-Fort Worth district was a co-permittee with Fort Worth and Arlington). Their NPDES permits are:

Permittee	EPA permit #
City of Arlington	TXS000301
City of Dallas	TXS000701
City of Fort Worth	TXS000901
City of Garland	TXS001001
City of Irving	TXS001301
City of Plano	TXS001801
City of Mesquite	TXS001601
TxDOT Dallas District	TXS000702

The regional monitoring program operated somewhat independently from the rest of the participants' permit requirements. Participants in the monitoring program received approval from EPA Region 6 (see attached letter) to take credit for storm water monitoring conducted prior to their actual storm water permit issuance, as long as it occurred no earlier than 1997. From 1997 to 2001 over 330 samples were collected from the 22-site regional network and analyzed for the 33 constituents listed above.

The compilation and analysis of data from the regional network was the capstone of the regional effort. Because the eight participants were sharing data from their respective sites for analysis, the participants realized the importance of coordinated data analysis. On a regional basis, the North Central Texas MS4s produced an annual summary review of the data collected from the permit-term network. This regional storm water characterization report was submitted along with each permitted participant's annual report of their management programs.

Permit Renewal Phase

Samples collected during the initial five-year program described above were taken primarily from small watersheds of a predominantly single land use type. While they served to characterize typical runoff from these specific land use areas, the samples did little to characterize urban runoff in general and much less to evaluate impacts on receiving streams. As the Phase I entities look toward a permit renewal, they are proposing to switch to in-stream monitoring of storm water runoff in order to more accurately assess this impact. A substantial dataset of single land use storm water discharges has been obtained thus far and little more new information can be expected from them. The primary goal of the in-stream monitoring program presented below will be to determine long-term trends and assess the impact of storm water input on receiving stream quality. Several years of data collection from each site will be required before meaningful trend analysis can be conducted. Data collected from each site during this initial term will serve as a baseline for future analyses.

The Phase I participants have developed a preliminary protocol for this sampling effort as outlined below. During the first permit year, a detailed regional monitoring protocol describing sampling methodologies to be used by all regional participants will be finalized. The plan proposes a move away from strict fixed station automated sampling as conducted previously. Although automated sampling may still be used in some cases, flexibility is being introduced to be both cost-effective and adaptable to changing conditions and needs. The parameter set is reduced to 17 from the original 22 approved by EPA. The two Fecal bacteria samples have been replaced with one E. coli sample. Recent studies have indicated that E. coli may be a better indicator of anthropogenic sources of sewage material than Fecal bacteria and the Texas state water quality standard now uses this method. The two subclasses of nitrogen (Total Kjeldahl and Nitrate + Nitrite) have been dropped for practicality. The validity of the additional information they provide has been brought into question. Phenol and nickel were parameters specific to the TxDOT permit so are not warranted for the regional program as a whole. The 9 QA/QC parameters used by USGS are no longer needed since USGS will not likely be doing the monitoring.

In the proposed plan, each entity would select up to three watersheds; they would select a minimum of three sampling sites within each watershed; they would sample one watershed per year on a rotating basis; and they would take four samples from each of the three sites per year. The samples would be taken and analyzed independently by each permittee with the results being compiled and summarized by NCTCOG. Further details are provided in the attached regional monitoring plan. Given the existing staggered permit expiration dates among the participants, it is anticipated that permit issuance by TCEQ will also be staggered. The regional program will need to have written endorsement from TCEQ that participants will receive credit for any monitoring they contribute as part of this regional effort that would be applied toward their eventual permit. A formal request for this is contained in the cover letter of this document.

Regional Monitoring Network (Permit Renewal Phase)

GOAL: To establish baseline data on receiving streams in the DFW Metroplex for use in determining long-term water quality trends. Identification of these trends will be used to define MS4 BMP design criteria and, eventually, evaluate BMP effectiveness.

NETWORK:

7 Cities (Dallas, Ft. Worth, Arlington, Irving, Plano, Garland, Mesquite)
10 Cost share participants - Phase I cities, North Texas Tollway Authority and TxDOT-Dallas District, TxDOT- Fort Worth District
8 Watersheds sampled per year
3 sampling stations per watershed
24 sites sampled per year
1 sample per quarter/per site; 4 per year
Monitoring Periods: January 1 - March 31; April 1 - June 30; July 1 - September 30; October 1 - December 31 (an ambient sample in lieu of the summer sample could be collected during any other quarterly monitoring period immediately preceding a sampled storm event)
96 samples per year, total
21 watersheds evaluated over the permit term (some watersheds are multi-jurisdictional)
288 total samples over the permit term

SCHEDULE:

Year 1 - Set up the sampling network (finalize sites, procure equipment, contract with laboratory, etc.)
Year 2 - Sample 3 storm events plus 1 ambient
Year 3 - Sample 3 storm events plus 1 ambient (rotate to watersheds different than Year 2)
Year 4 - Sample 3 storm events plus 1 ambient (rotate to watersheds different than Years 2 & 3)
Year 5 - Consolidate data, prepare final report
Repeat the cycle in the next permit term

Samples will be collected during years two through four of the five-year permit period. During the first permit year, final selections will be made for sampling locations and details of the sampling protocol will be finalized. The fifth year will be reserved for data consolidation and analysis, preparation of the final report, and development of any necessary amendments to the sampling protocol. During each sampling year, each participant will collect samples from one of their selected watersheds. For participants with three selected watersheds a different watershed will be sampled during each of the three sampling years (see map). Samples will be collected quarterly (four per year) from each site during a rain event. The monitoring periods will correspond to calendar year quarters (January 1 – March 31; April 1 – June 30; July 1 – September 30; October 1 – December 31). Because the summer quarter (July – September) is often very dry, with very few storm events available for sampling, a sample collected during ambient conditions during any quarter may be substituted for the summer quarter sample. This ambient sample should be collected under normal flow conditions with at least 72 hours of dry weather preceding the collection. Also, if a valid event does not occur during a quarter, an attempt will be made to collect the sample in the following quarter. If the sample still cannot be collected the sample will be waived.

SAMPLING:

Grab Samples (4 grabs per sampling event, including first flush) taken manually or with automated samplers

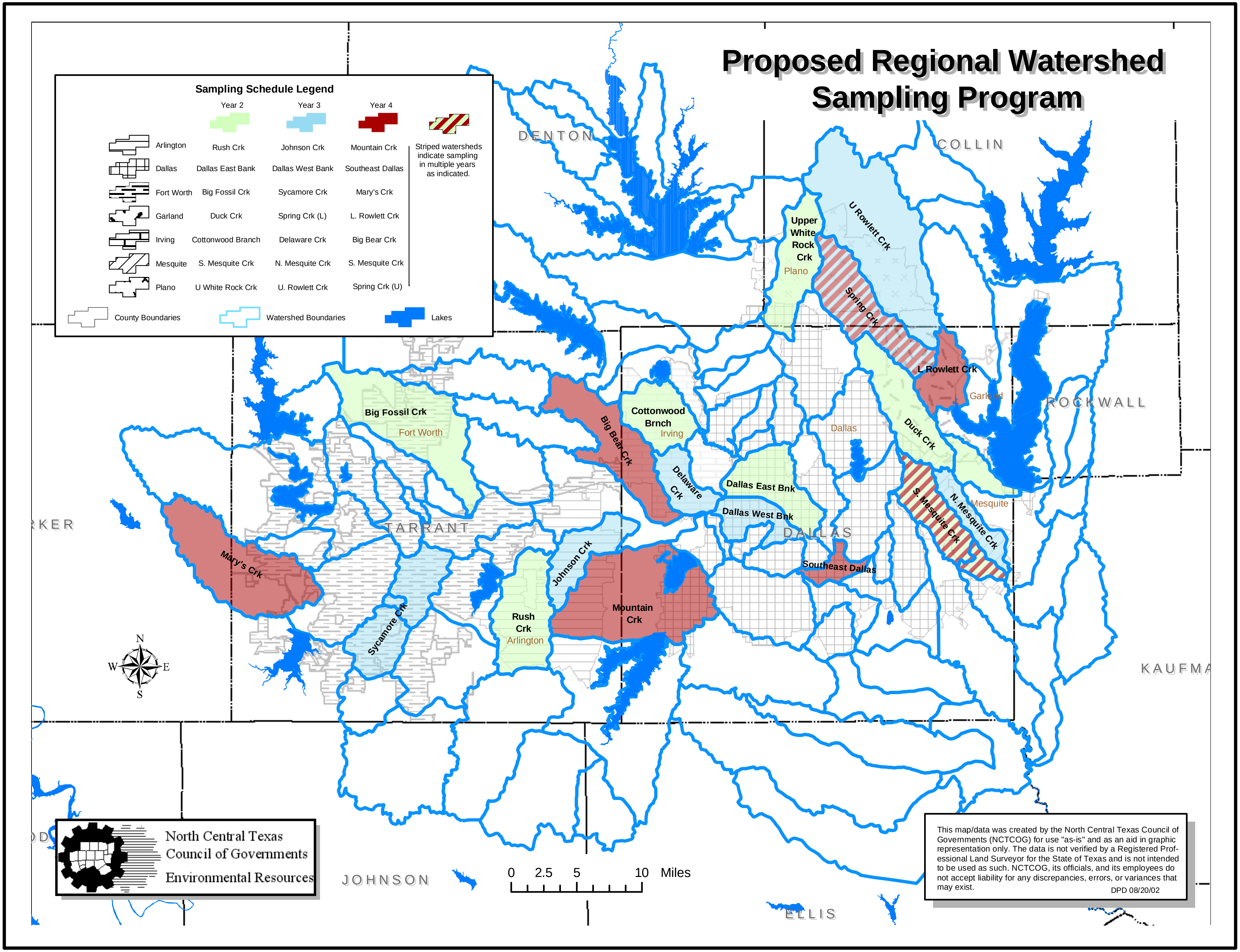
- Samples will be collected and analyzed for E. coli, oil and grease, pH, BOD5, COD, TSS, TDS, As, Cd, Cr, Cu, Pb, Zn, dissolved and total phosphorus, total nitrogen, and Diazinon - parameters could be modified after studying available data.
- 2 liter first flush; analyze for *e.* coli, total coliform, O&G, pH
- Develop a first flush definition specific to this program (could be as simple as a 1/2" rise in water level from the base flow and/or a noticeable color change)
- 2 liters collected each 30 minutes thereafter, 8 liters total (final quantity to be based upon laboratory recommendations), 2 hour storm event maximum;

Each participating entity will be responsible for final selection of sampling sites. They may use in-house staff or a consultant of their choice for sample collection. Participants may also choose the laboratory of their choice for analysis as long as procedures and data quality objectives specified in the regional protocol (to be finalized during the first permit year) are met.

Grab samples will be collected as close to the first flush as possible for analysis of *E. coli*, oil and grease, and pH. An additional first flush sample and three subsequent samples collected at equal time intervals will be collected over the first two hours of the event and combined for a composite sample. Only the first two hours of runoff will be collected regardless of storm duration. The grab samples can be obtained either manually or from some type of automated collection.

Sampling will be initiated based on a rise in water level. The specific level to be used will be determined during the first permit year. The appropriate amount of rise may vary between watersheds dependent on such factors as watershed size and amount of impervious area. It is anticipated that the rise used will be between two and six inches. Stream gauges, or other methods of determining water level, will be installed at each sampling location. Rain gauges may be deployed at the sampling locations, however rain does not need to fall at the site in order to have a rise in the level of the stream that would trigger sampling. Rainfall in the basin upstream of the site would cause a rise downstream without any rain actually falling at the sampling location.

The North Central Texas Council of Governments (NCTCOG) role in the regional monitoring program will be to coordinate the overall program, the lab contracts, and the data collection; to assist participants in site selection and the development of sampling protocol; and to generate/deliver reports for use in Annual Reports.


Proposed Regional Watershed Sampling Program
Sampling Schedule Legend
Year 2
Year 3
Year 4
Arlington
Rush Crk
Johnson Crk
Mountain Crk
Dallas
Dallas East Bank
Dallas West Bank
Southeast Dallas
Fort Worth
Big Fossil Crk
Sycamore Crk
Mary's Crk
Garland
Duck Crk
Spring Crk (L)
L. Rowlett Crk
Irving
Cottonwood Branch
Delaware Crk
Big Bear Crk
Mesquite
S. Mesquite Crk
N. Mesquite Crk
S. Mesquite Crk
Plano
U White Rock Crk
U. Rowlett Crk
Spring Crk (U)
Striped watersheds indicate sampling in multiple years as indicated.
County Boundaries
Watershed Boundaries
Lakes
DENTON
COLLIN
ROCKWALL
TARRANT
DALLAS
KAUFMA
JOHNSON
ELLIS
RKER
OD
Upper White Rock Crk
Plano
U Rowlett Crk
Spring Crk
L Rowlett Crk
Garland
Duck Crk
Big Fossil Crk
Fort Worth
Cottonwood Brnch
Irving
Big Bear Crk
Delaware Crk
Dallas
Dallas East Bnk
Dallas West Bnk
S. Mesquite Crk
N. Mesquite Crk
Mesquite
Mary's Crk
Johnson Crk
Southeast Dallas
Mountain Crk
Rush Crk
Arlington
Sycamore Crk
N
W
E
S
North Central Texas Council of Governments
Environmental Resources
0 2.5 5 10 Miles
This map/data was created by the North Central Texas Council of Governments (NCTCOG) for use "as-is" and as an aid in graphic representation only. The data is not verified by a Registered Professional Land Surveyor for the State of Texas and is not intended to be used as such. NCTCOG, its officials, and its employees do not accept liability for any discrepancies, errors, or variances that may exist.
DPD 08/20/02

RECEIVED
SEP 19 1997
NCTCOG
ENVIRONMENTAL RESOURCES

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RGION 6
1445 ROSS AVENUE
DALLAS, TEXAS 75202-2733

SEP 17 1997

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (Z 698 454 895)

Mr. Samuel W. Brush
Manager of Environmental Systems
North Central Texas Council of Governments
Department of Environmental Resources
P.O. Box 5888
Arlington, TX 76005-5888

Re: Dallas-Fort Worth Regional Urban Storm Water Monitoring Program

Dear Mr. Brush:

We appreciate you and the Dallas-Fort Worth Regional Urban Storm Water Management Representatives in developing a partnership to address urban runoff quality. As stated in our letter sent to you in August, 1996, EPA does not see any reason why the municipalities in the Regional Monitoring Program can not move forward.

The municipalities who participate in the Regional Monitoring Program will be able to take credit for any sampling performed prior to receiving a final National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System Permit. These cities will be allowed to report any sampling performed from the time of being issued a proposed permit until the cut-off time for the first annual report in their final permit. Hopefully, this will give the permittees a chance to cooperate and accommodate the schedules set fort in the Regional Monitoring Program. EPA recognizes the difficulties the Task Force has been facing and we appreciate you for all the hard work and energy required to manage this Regional effort.

If we can be of any other assistance, please feel free to contact Monica Burrell of my staff, at (214) 665-7530.

Sincerely yours,

Jack V. Ferguson, P.E.
Chief
NPDES Branch

cc: Mr. Michael Walter, city of Irving
Mr. James Caffey, city of Arlington
Mr. Dale Hoelting, city of Plano
Mr. Matthew Holzapfel, city of Mesquite
Mr. Gene Rattan, city of Fort Worth
Mr. Larry McDaniel, city of Dallas
Mr. Philip Welsch, city of Garland
Mr. Jay McCurley, Texas Dept. Of. Transportation

Appendix B

Letters of Approval from TCEQ

Robert J. Huston, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
Kathleen Hartnett White, *Commissioner*
Margaret Hoffman, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 15, 2003

RECEIVED
APR 21 2003
NCTCOG
ENVIRONMENTAL RESOURCES

Mr. David Gattis, Chairman
Regional Storm Water Management Committee
c/o North Central Texas Council of Governments
P.O. Box 5888
Arlington, Texas 76005-5888

Re: Letter of January 30, 2003 - Summary of the Dallas-Fort Worth Regional Monitoring Program

Dear Mr. Gattis:

Thank you for providing the above-referenced summary of the regional monitoring program, including the proposed modifications. We appreciate the efforts of the north central Texas regional storm water participants and the work that you continue to undertake to coordinate storm water sampling, evaluation, and planning. After reviewing the proposed plan, stated goal, and schedule of implementation, we agree that the participants in the monitoring program should proceed.

Municipal separate storm sewer system (MS4) operators will be able to use their participation in the regional monitoring program in order to satisfy certain storm water management program requirements in Texas Pollutant Discharge Elimination System MS4 storm water permits. Participants that apply for renewal of existing MS4 permits may reference the regional program that was described in your letter, or include a copy of the plan with the application for renewal.

As the regional plan is formalized, and perhaps further revised or modified, please coordinate with Mr. Stephen Ligon, Team Leader of the Storm Water & General Permits Team. Mr. Ligon may be reached directly at (512) 239-4527.

Sincerely,

L'Oreal Stepney

L'Oreal W. Stepney, Manager
Wastewater Permitting Section
Water Quality Division

LS/sl

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 10, 2006

Dear Regional Storm Water Monitoring Program participant:

This letter serves to inform Phase I entities participating in the Dallas – Fort Worth Regional Wet Weather Characterization Program (RWWCP) that the program's five year implementation plan began on December 22, 2005 with the issuance of the City of Garland Phase I Texas Pollutant Discharge Elimination System (TPDES) Municipal Separate Storm Sewer System (MS4) permit. As described in the RWWCP plan, approved by the Texas Commission on Environmental Quality (TCEQ) on April 15, 2003, the first year of this five year program will be utilized to finalize monitoring sites, obtain necessary equipment, and complete other year one elements. Entities that have chosen to participate in this program are encouraged to contact the North Central Council of Governments (NCTCOG) to participate in the first year's preparation process.

The RWWCP was developed and is currently managed through a coalition of entities with the assistance of NCTCOG. As part of the agreements made with the Environmental Protection Agency (EPA) and the TCEQ, participating entities will not be required to submit monthly Discharge Monitoring Reports (DMRs) for entry into the EPA's Permit Compliance System database. Instead, this program allows participating permittees to include DMRs in their annual report together with a supplemental copy of the region-wide report (as detailed in Part IV.E.1. of the permit). Based on conversations with NCTCOG, it is our understanding that NCTCOG will be preparing DMRs for each entity to include with the annual report and will be using a digital DMR form originally approved by EPA.

Permittees participating in the RWWCP must report their monitoring activities in the annual report according to the City of Garland Phase I MS4 permit timeframe. For example, even if your permit is issued in February, your entity will finalize monitoring sites by December 21, 2006, and perform monitoring from December 22, 2006 to December 21, 2009; the region-wide report must also utilize this timeframe. Permittees will be given credit for any monitoring performed prior to issuance of their respective permit. We recognize that as a result of this schedule, those entities receiving authorization for their Phase I TPDES MS4 permit after December 22, 2005 will complete the requirements of the RWWCP and Wet Weather Characterization monitoring prior to the expiration of their respective permit.

The TCEQ appreciates the efforts of the participating entities and is pleased to further the regional program that was initiated during the first permit term. If you have any further questions or comments about this option of the permit, please contact Mr. Keith Kennedy with NCTCOG at (817) 695-9221 or the TCEQ staff member responsible for development and maintenance of your respective permit at (512) 239-4671.

Sincerely,

David Waterstreet, Team Leader
Storm Water & Pretreatment
Wastewater Permitting Section

cc: TCEQ, Region 4

P.O. Box 13087 • Austin, Texas 78711-3087 • 512/239-1000 • Internet address: www.tceq.state.tx.us

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 13, 2008

Mr. Jim Crisp, Chairman
Regional Storm Water Management Coordinating Council
c/o North Central Texas Council of Governments
P.O. Box 5888
Arlington, Texas 76005-5888

Re: Data Reporting Requirements for Phase I MS4 Permits in the Dallas-Forth Worth Area

Dear Mr. Crisp:

This letter serves to inform entities participating in the Dallas-Fort Worth Regional Wet Weather Characterization Program (RWWCP) that Discharge Monitoring Reports (DMRs) are not required and therefore will not need to be submitted with their annual reports for the current permit term.

Entities that have selected the option of participating in the RWWCP (Option 3) described in Part IV.A.3 of the Texas Pollutant Discharge Elimination System (TPDES) Phase I MS4 permits recently issued to North Central Texas governmental entities are following different monitoring requirements than found in Option 1 (Part IV.A.1). In accordance with Part IV.E. of these permits, entities utilizing Option 3 may compile and summarize data from the regional sampling effort in a regional annual report, without submitting individual DMRs.

Should a permitted entity elect to utilize Option 1 rather than the RWWCP (Option 3), then DMRs would be required in accordance with the first part of paragraph IV.E. of these permits.

We appreciate the efforts of NCTCOG and the regional participants in working together to coordinate storm water sampling and storm water management in general.

Sincerely,

Cynthia Hooper

Cynthia Hooper
Wastewater Permitting Section
Water Quality Division

CH/ms

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • Internet address: www.tceq.state.tx.us

North Central Texas Council of Governments

December 30, 2008

Kim Wilson, Storm Water Team Leader
Storm Water & Pretreatment Team
Texas Commission on Environmental Quality MC-148
P.O. Box 13087
Austin, TX 78711-3087

Subject: Request for Change to the Dallas – Fort Worth Regional Wet Weather Characterization Program

Dear Kim:

This letter serves as a request for approval to make an amendment to the Dallas – Fort Worth Regional Wet Weather Characterization Program (RWWCP). The RWWCP was approved by the TCEQ on April 15, 2003, and was added as an option in Part IV.A.3 of the Texas Pollutant Discharge Elimination System (TPDES) Phase I MS4 permits issued to North Central Texas governmental entities. These entities included the Cities of Dallas, Fort Worth, Arlington, Garland, Irving, Mesquite, Plano, as well as the North Texas Tollway Authority and TxDOT-Dallas District. As described in Part IV.A.3 in the TPDES Phase I MS4 permit, each program participant must coordinate with all other program participants on any proposed amendments to the RWWCP, which may be submitted in writing to the TCEQ's Storm Water and Pretreatment Team for consideration at any time. The framework of this program has been set up to allow greater flexibility in that any such amendments would not require formal permit modification procedures since the RWWCP language exists outside of each permit.

The City of Fort Worth has requested to change their watershed to be sampled for chemical analysis in 2009 from Mary's Creek to Marine Creek. Attached is a detailed overview of the rationale for this proposed amendment.

On behalf of the RWWCP, the North Central Texas Council of Governments (NCTCOG) would like to request approval from the TCEQ to proceed with the modification of the RWWCP to include the City of Fort Worth's new 2009 chemical sampling watershed selection.

If you have any further questions or comments, please contact me at (817) 695-9221 or kkennedy@nctcog.org.

Sincerely,

Keith C. Kennedy
Manager of Environment and Development

616 Six Flags Drive, Centerpoint Two
P.O. Box 5888, Arlington, Texas 76005-5888
817/640-3300 FAX: 817/640-7806 ♻ recycled paper

City of Fort Worth Watershed Change Proposal

The City of Fort Worth opted to satisfy the Wet Weather Characterization requirement of its MS4 storm water permit by participating in the Regional Wet Weather Characterization Program as described in Part IV.A.3 of the permit. The City also opted to include bioassessments (Part IV.A.2) in its program. The regional program requires sampling for chemical analysis from three different watersheds during 2007, 2008, and 2009 (one watershed sampled each year): Bioassessments are conducted from all three watersheds each year. The watersheds initially selected were Big Fossil Creek (2007), Sycamore Creek (2008), and Mary's Creek (2009).

Reconnaissance at Mary's Creek in preparation for storm event sampling in 2009 has revealed that topography along Mary's Creek makes selecting sites at appropriate locations with adequate access for automatic sampling problematic. Therefore the City of Fort Worth would like to change the watershed to be sampled for chemical analysis in 2009 from Mary's Creek to Marine Creek.

Marine Creek was included in bioassessments conducted in 2007 and 2008 along with Mary's Creek, Sycamore Creek, and Big Fossil Creek. Mary's Creek and Marine Creek also were included in bioassessments conducted in 1999 and 2001. These data, summarized in Table 1, indicate that in general Marine Creek is somewhat more impacted by urbanization compared to Mary's Creek, which is not unexpected considering the locations of the watersheds. Mary's Creek flows through far west Fort Worth and the watershed is comprised of 80% open/agricultural land use while Marine Creek flows through north-central Fort Worth with a watershed containing 52% open land use. The challenges, regarding potential pollutant sources, are greater on Marine Creek and likewise the potential for realizing water quality improvements is greater on Marine Creek compared to Mary's Creek.

Table 1: Macroinvertebrate index scores for samples collected in from Mary's Creek (MRY) and Marine Creek (MAR) in 1999, 2001, and 2007.

	2007		**2001**		**1999**		
Site	**Spring Score**	**Fall Score**	**Spring Score**	**Fall Score**	**Spring Score**	**Assessment**	**Score**
MRY1	-	-	-	-	-	Non-impaired	>75%
MRY2	96%	80%	96%	100%	78%	Slightly impaired	50-75%
MRY3	85%	106%	94%	100%	91%	Moderately impaired	25-49%
MAR1	57%	73%	67%	67%	52%	Severely impaired	<25
MAR2	70%	67%	90%	71%	43%		
MAR3	70%	86%	42%	44%	49%		

Scores are a percentage as compared to the reference site (MRY1).

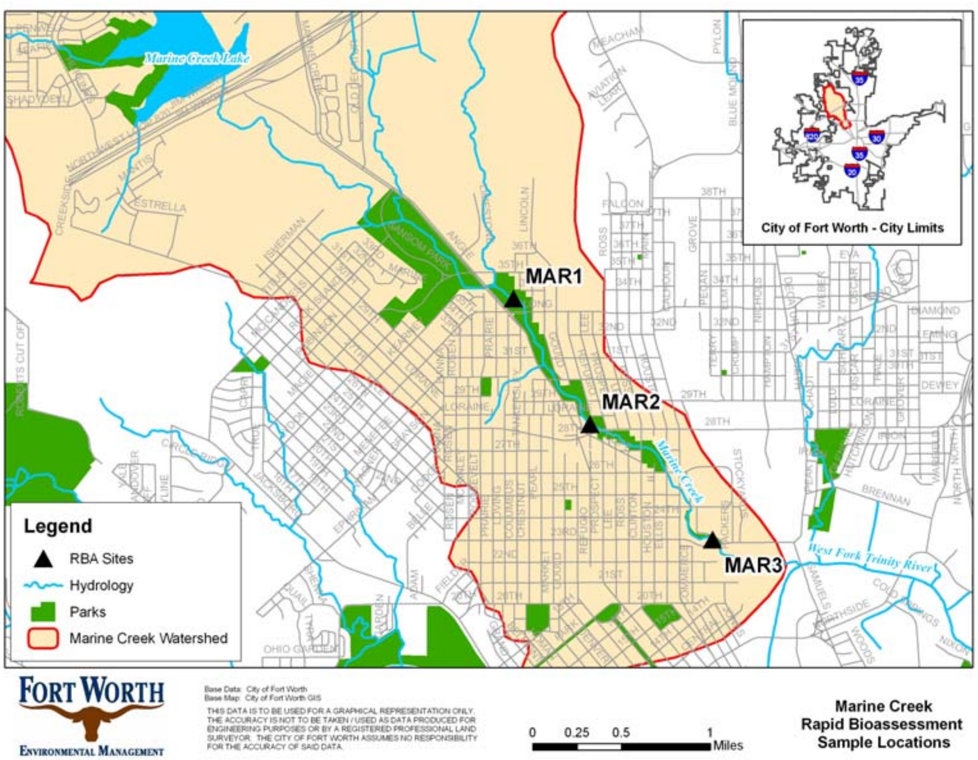
Sample Site Descriptions for Marine Creek

Marine Creek originates as overflow from the containment dam at Marine Creek Lake, which is owned and operated by the Tarrant Regional Water District and located northwest of the Fort Worth central city. Marine Creek terminates at its convergence with the Trinity River downstream of the confluence of the Clear Fork Trinity River and West Fork Trinity River, approximately 1.5 miles north of downtown Fort Worth. Marine Creek is wholly encompassed within the city limits of Fort Worth. Land use within the watershed is 52% undeveloped, including city parks, with the remainder comprised of residential (19%), commercial/industrial (6%), government/education (4%), water (2%), airports (5%), and roadways/infrastructure (12%).

MAR1, the upstream sample point, is located in Marine Creek Linear Park east of Angle Ave. and north of Long Ave. (32°48’19.65”N, 97º21’51.89”W). Between the headwaters and MAR1, Marine Creek meanders through primarily undeveloped land and an unimproved City Park (Buck Sansom Park).

The middle reach sample point, MAR2 (32°47’43.27”N, 97°21’25.31”W), is located in Lincoln Park (unimproved City Park) north of NW 28th Street. Above this point the surrounding watershed includes single-family residential uses in addition to receiving runoff from Meacham International Airport.

Potential commercial impacts increase at the downstream site (MAR3: 32°47’10.20”N, 97°20’45.59”W), including influences from the Fort Worth Stockyards National Historic District. MAR3 is accessed through Saunders Park on the south end of the Stockyards area and north of NE 23rd Street.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 13, 2009

Mr. Keith C. Kennedy, Manager
Environment and Development
North Central Texas Council of Governments
P.O. Box 5888
Arlington, Texas 76005-5888

Re: Request to Change Dallas, Fort Worth Regional Wet Weather Characterization Program

Dear Mr. Kennedy:

Thank you for your letter of December 30, 2008, in which the North Central Texas Council of Governments (NCTCOG) requests approval for a revision to the Dallas, Fort Worth Regional Wet Weather Characterization Program (RWWCP).

As described in your letter, the NCTCOG is requesting approval to change the watershed sampled by the City of Fort Worth (City) in 2009. Currently the RWWCP requires the City to collect samples from Mary's Creek in 2009, but the City indicates that the topography of Mary's Creek does not support the use of automatic sampling equipment. The City indicates that bioassessments conducted on both creeks indicate that Marine Creek may be somewhat more impacted by urban development than Mary's Creek, and would be appropriate for this program.

Based on the above information, as well as the fact that no change to the number or frequency of samples is being proposed, we concur with your request and approve the revision to the RWWCP. This revision may be implemented immediately upon receipt of this letter. If you have any additional questions, please contact me at your convenience, either by phone at (512) 239-4644, or at the address on this letter.

Sincerely,

Kimberly Wilson, Leader
Storm Water & Pretreatment Team
Wastewater Permitting Section (MC-148)

KW/gv

CEIVED
JAN 27 2009
NCTCOG
Environment & Development

Appendix C

Lab Certifications and Accreditations

1.0 GENERAL INFORMATION

A. Company Name: TTI Environmental Laboratories

Corporation _X____ Partnership ________ Individual ______

B. Home Office Address: 2117 Arlington Downs Road

Arlington, TX 76011

Person to Contact: Hardeep Singh/ Alan Schultz______ Phone No.:(817) 861-5322

Title: Operations manager/Business Development Mgr_____
E-mail: hpabley@ttilabs.com/aschultz@ttilabs.com

C. Local Office Address: 2117 Arlington Downs

Arlington, TX 76011

D. Firm Service Profile -

Services Provided	Proposed	2010	2009	2008
A. Geotechnical & Construction Materials Testing Services	%	%	%	%
B. General Environmental Consulting Services	%	%	%	%
C. Environmental Analytical Laboratory Testing Services	100%	100%	100%	100%
D. Specialized Services	%	%	%	%
E. Other	%	%	%	%

CONTROLLED DOCUMENT

E. Client Service Profile. Please indicate the percentage of work by client type as performed during the past three (3) years.

Type of Client	2010	2009	2008
A. Municipal	30%	30%	30%
B. County	5%	5%	5%
C. State Agency	30%	30%	30%
D. Federal Agency	5%	5%	5%
E. School Districts	1%	1%	1%
F. Colleges and Universities	%	%	%
E. Private Sector	4%	4%	4%
F. Architect/Engineering Consultants	25%	25%	252%
G. Other:________________	%	%	%
TOTALS	100%	100%	100%

A. PERSONNEL QUALICATIONS

TTI currently employs 15 employees at this time. TTI has included the resumes of 4 key people that are technical leaders as well as managers. Please see **Attachment C** for a personnel chart and complete resumes of key personnel.

The Management/Technical Personnel are:

1. **Meera Neb, Quality Assurance Officer**
2. 10+ years project/QA management
3. 8 years providing municipal services
4. Over 20 years in QA in laboratory setting. Including TCEQ, NELAC, EPA and FDA

1. **D Korant, Technical Director**
2. 5+ years laboratory work, 3 as director
3. 5 years providing municipal services

1. **George Koshy, Quality Manager**
2. 16 years organics laboratory experience
3. 5+ years with providing municipal services
4. 4 years with TTI providing analytical data for multiple municipal contracts.

B. CERTIFICATIONS

TTI is currently NELAC certified by the State of Texas, **NELAC Certificate No. T104704325-09-TX**. Please see **Attachment A** for the copy of the certificate. Also attached is TTI's NCTRCA certificate for W/MBE status and HUB certificate.

C. CURRENT WORKLOAD

TTI is currently operating at about 60% of capacity. TTI is able to handle almost 100% more workload with out any disruption in service.

E. SERVICE AREA SPECIFIC EVALUATION CRITERIA

Please see **Attachment A** for copies of the Texas NELAC Certificate .

TTI has submitted 2 sections of TTI's Quality Service Manual, The Scope and Table of Contents. This demonstrates TTI's quality plan is compliant with NELAC, ISO and EPA standards, as stated in NELAC Standards 5.4.2.2 and 5.4.2.3. Please see **Attachment B** for a copy of TTI's QA Manual sections and **Attachment C** copies of recent TCEQ audit.

TTI currently has the capability to report all data in 3 formats: Signed PDF document, EDD and hard copy. EDDs can be set up to customers' specifics (LINKO, LIMS, ELEMENT, comma delimited, etc.) Also, TTI currently keep all records for a minimum of 10 years off-site.

TTI sends reports via email and is set up to a web based application for clients to get data via web access.

TTI has adequate space for sample storage . All refrigeration units are monitored and logged daily. Also, TTI equipment list will be provided upon request.

Please refer to **Attachment D** for copy of insurance.

F. SPECIALIZED SERVICE RESPONSE

TTI is able to expedite turn around times to Emergency Response (ER) status and get most results back to the client the same day. This charge is 300% increase over standard pricing. The limit of time in this case is test methodology.

2117 Arlington Downs Road ◆ Arlington, TX 76011 Phone: (817) 861-5322 ◆ Fax: (817) 261-1717

CONTROLLED DOCUMENT

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

TTI ENVIRONMENTAL LABORATORIES
2117 ARLINGTON DOWNS ROAD
ARLINGTON, TX 76011-8210

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Certificate Number: T104704325-09-TX
Effective Date: 07/01/2009
Expiration Date: 06/30/2010

Mark Vickery

Executive Director
Texas Commission on Environmental Quality

CONTROLLED DOCUMENT

NCTRCA Disadvantaged Business Enterprise Certification

Texas Unified Certification Program

TUCP

TTI Environmental Laboratories, LLC

Disadvantaged Business Enterprise

has filed with the Agency an Affidavit as defined by 49 CFR part 26 and is hereby certified to provide service(s) in the following areas:

562211; 541380; 924110;

Hazardous Waste Treatment and Disposal; Testing Laboratories; Administration of Air and Water Resource and Solid Waste Management Programs;

This Certification is valid beginning February 2010 and superseded any registration or listing previously issued. This certification must be updated annually by submission of an Annual Update Affidavit. At any time there is a charge in ownership or control of the firm, notification must be made immediately to the North Central Texas Regional Certification Agency or an TUCP certifying entity.

Certificate expiration February, 20 11

Sheena Morgan

Certification Administrator

Issued date February, 20 10

CERTIFICATION NO.

IFDB44151Y0211

CONTROLLED DOCUMENT

State of Texas

Historically Underutilized Business Certification and Compliance Program

THE STATE OF TEXAS

The Texas Comptroller of Public Accounts (CPA), hereby certifies that

TTI ENVIRONMENTAL LABORATORIES

has successfully met the established requirements of the State of Texas Historically Underutilized Business (HUB) Program to be recognized as a HUB.

This certificate, printed 28-MAR-2009, supersedes any registration and certificate previously issued by the HUB Program. If there are any changes regarding the information (i.e., business structure, ownership, day-to-day management, operational control, addresses, phone and fax numbers or authorized signatures) provided in the submission of the business' application for registration/certification as a HUB, you must immediately (within 30 days of such changes) notify the HUB Program in writing. The CPA reserves the right to conduct a compliance review at any time to confirm HUB eligibility. HUB certification may be suspended or revoked upon findings of ineligibility.

Paul A. Gibson

Certificate/VID Number: 1752398824800
File/Vendor Number: 07021
Approval Date: 27-MAR-2009
Expiration Date: 27-MAR-2013

Paul A. Gibson
Statewide HUB Program Manager
Texas Comptroller of Public Accounts
Texas Procurement and Support Services Division

Note: In order for State agencies and institutions of higher education (universities) to be credited for utilizing this business as a HUB, they must award payment under the Certificate/VID Number identified above. Agencies and universities are encouraged to validate HUB certification prior to issuing a notice of award by accessing the Internet (http://www.window.state.tx.us/procurement//cmbl/hubonly.html) or by contacting the HUB Program at (888) 863-5881 or (512) 463-5872.

Accutest Gulf Coast
10165 Harwin Drive
Suite 150
Houston, TX 77036

Certifications:

NELAC (1) National Environmental Laboratory Accreditation Conference

USACE (2) United States Army Corp of Engineers

NFESC (3) Naval Facilities Engineering Service Center

USDOA (4) US Dept of Agriculture (Foreign Soils Permit)

ERMI Environmental Laboratories

ERMI Corporate Headquarters
400 West Bethany Road Suite 190
Allen, Texas 75013

Certifications:

National Environmental Laboratories Accreditation Program (NELAP) Certification
Certification # T104704232-08D-TX

US Department of Agriculture Foreign Soils Permit

330 Loch 'N Green Trail
Arlington TX 76012-3481
817-275-2691

Certifications & Accreditations:

American Industrial Hygiene Assoc. (AIHA) accredited Laboratory ID:101413
- AIHA Industrial Hygiene Laboratory Accreditation Program (IHLAP)
- AIHA Environmental Lead Proficiency Analytical Program (ELLAP)
- AIHA Environmental Microbiology Proficiency Analytical Program (EMLPA)

FDA Registered Laboratory

Texas Commission on Environmental Quality (TCEQ) Certified Laboratory

Texas Department of Public Safety (DPS) Controlled Substance Registration

Texas Department of State Health Services (TDSHS) licensed Mold Analysis Laboratory (LAB0107)

TDSHS Mold Analysis Company ACO0180

US Department of Agriculture (USDA) Soil Permit #S-70049

US Department of Justice Drug Enforcement Administration (DEA) Controlled Substance Registration

US Environmental Protection Agency (EPA) Acknowledged Environmental Laboratory

USEPA National Lead Laboratory Accreditation Program (NLLAP)

XENCO LABORATORIES

9701 Harry Hines Blvd
Dallas, TX 75220
Ph: (214) 902-0300
Fax: (214) 351-9139

Certifications & Accreditations:

NELAC Accreditation via the State of Texas

North Central Texas Regional Certification Agency: Minority Business Enterprise (MBE)
Certificate ID# HMMB33717Y0308

State of Texas Historically Underutilized Business Certification (HUB)
Certificate/VID Number: 1760312950700

Texas Commission on Environmental Quality: Drinking Water Certification

Texas Commission on Environmental Quality: NELAP Accreditation (In Process)

Texas Department of State Health Services Asbestos Laboratory (PLM)
License #:300364

United States Department of Commerce Bulk Asbestos Fiber Analysis (PLM)
NVLAP Lab Code: 200765-0

Qualifications:

- XENCO is a Synchronized National Network
- Operates under a Customized Personally LIMS
- Client Accounts with Many Multinational and National Companies
- Premium Performance on PT Studies and Audit Programs
- National Certifications and International Expertise
- Numerous Small Business Certifications, SDBE, MWBE
- Vast Project Expertise Across the Country and Across Agencies
- Our Total Commitment to On-Time Performance

Appendix D

Summary Statistics

Table E-1
Summary Statistics of Sampled Data

Entity	Arlington								
Watershed	Rush Creek			Johnson Creek			Mountain Creek		
Station	AR 0701	AR 0702	AR 0703	AR 0801	AR 0802	AR 0803	AR 0901	AR 0902	AR 0903
Start Date	1/12/2007	1/3/2007	1/3/2007	1/25/2008	1/25/2008	1/25/2008	2/9/2009	2/9/2009	3/11/2009
End Date	10/14/2007	10/14/2007	10/14/2007	10/6/2008	10/6/2008	10/14/2008	10/3/2009	10/3/2009	10/3/2009
Parameter	Arsenic, Total (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002
Maximum	0.012	0.012	0.005	0.005	0.010	0.005	0.010	0.007	0.004
Median	0.005	0.003	0.003	0.003	0.002	0.002	0.003	0.005	0.002
Arithmetic Mean	0.005	0.005	0.003	0.003	0.004	0.002	0.004	0.005	0.003
Geometric Mean	0.004	0.003	0.003	0.003	0.002	0.002	0.003	0.004	0.002
Standard Deviation	0.005	0.005	0.001	0.002	0.004	0.002	0.004	0.003	0.001
Coefficient of Variation	0.846	1.155	0.471	0.609	1.139	0.841	1.061	0.588	0.400
Parameter	Biochemical Oxygen Demand 5-Day (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	1.50	1.50	1.50	5.00	4.56	2.40	6.66	10.60	4.82
Maximum	12.20	30.00	30.00	13.20	25.00	10.20	19.30	40.30	21.90
Median	5.06	8.51	11.65	9.90	16.71	5.87	12.35	16.85	14.06
Arithmetic Mean	5.95	12.13	13.70	9.50	15.75	6.09	12.67	21.15	13.71
Geometric Mean	4.65	7.29	8.80	8.94	12.67	5.37	11.83	18.64	11.52
Standard Deviation	4.49	12.62	11.95	3.50	10.31	3.26	5.19	13.13	8.32
Coefficient of Variation	0.76	1.04	0.87	0.37	0.66	0.54	0.41	0.62	0.61
Parameter	Chemical Oxygen Demand (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	0.50	21.80	10.20	16.90	0.50	9.50	34.00	37.80	48.00
Maximum	80.00	45.00	310.00	48.90	67.10	17.90	83.20	112.00	86.70
Median	43.45	36.55	41.80	33.25	44.00	14.15	59.35	88.00	67.85
Arithmetic Mean	41.85	34.98	100.95	33.08	38.90	13.93	58.98	81.45	67.60
Geometric Mean	14.75	33.48	43.31	30.83	15.07	13.44	55.34	74.95	65.94
Standard Deviation	39.07	11.40	141.66	13.38	32.26	4.15	23.26	34.17	17.05
Coefficient of Variation	0.93	0.33	1.40	0.41	0.83	0.30	0.39	0.42	0.25
Parameter	Chromium, Total (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	0.003	0.003	0.005	0.002	0.002	0.002	0.002	0.002	0.002
Maximum	0.026	0.019	0.010	0.005	0.010	0.006	0.004	0.011	0.007
Median	0.015	0.005	0.007	0.002	0.002	0.003	0.002	0.006	0.005
Arithmetic Mean	0.015	0.008	0.007	0.002	0.004	0.004	0.002	0.006	0.005
Geometric Mean	0.011	0.006	0.007	0.002	0.002	0.003	0.002	0.005	0.004
Standard Deviation	0.010	0.008	0.003	0.002	0.004	0.002	0.001	0.004	0.002
Coefficient of Variation	0.674	0.985	0.363	0.737	1.172	0.670	0.588	0.648	0.491
Parameter	Copper, Total (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	0.019	0.004	0.010	0.013	0.018	0.005	0.004	0.004	0.004
Maximum	0.044	0.035	0.024	0.043	0.066	0.029	0.048	0.063	0.122
Median	0.023	0.030	0.020	0.019	0.039	0.018	0.038	0.048	0.059
Arithmetic Mean	0.028	0.025	0.018	0.023	0.040	0.018	0.032	0.041	0.061
Geometric Mean	0.026	0.019	0.017	0.021	0.036	0.015	0.023	0.027	0.036
Standard Deviation	0.011	0.014	0.007	0.013	0.022	0.010	0.019	0.028	0.048
Coefficient of Variation	0.407	0.577	0.362	0.578	0.538	0.594	0.602	0.692	0.787
Parameter	E. coli (col/100 mL)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	5	5	22	30	90	0.5	60	210	1,500
Maximum	9,430	20,000	31,300	3,100	100,000	31,000	300,000	20,000	500,000
Median	695	1,145	650	280	29,750	1,700	3,850	4,600	33,000
Arithmetic Mean	2,706	5,574	8,156	923	39,898	8,600	76,940	7,353	141,875
Geometric Mean	248	491	674	230	5,984	450	3,065	2,836	22,795
Standard Deviation	4,524	9,658	15,435	1,467	47,917	14,960	148,740	8,900	240,225
Coefficient of Variation	1.67	1.73	1.89	1.59	1.20	1.74	1.93	1.21	1.69
Parameter	Field pH (su)								
No. of Samples	2	2	2	4	4	4	4	4	3
Minimum	6.82	7.39	7.30	7.26	7.43	6.80	7.73	7.75	7.85
Maximum	7.40	7.49	7.54	8.34	7.96	7.93	8.70	8.44	8.24
Median	7.11	7.44	7.42	7.84	7.81	7.83	8.47	8.065	7.90
Arithmetic Mean	7.11	7.44	7.42	7.82	7.75	7.60	8.34	8.08	8.00
Geometric Mean	7.10	7.44	7.42	7.81	7.75	7.58	8.33	8.076	8.00
Standard Deviation	0.41	0.07	0.17	0.44	0.23	0.53	0.43	0.293	0.21
Coefficient of Variation	0.06	0.01	0.02	0.06	0.03	0.07	0.05	0.036	0.03
Parameter	Lab pH (su)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	7.15	7.18	7.11	6.88	6.74	7.14	7.07	7.10	6.88
Maximum	7.66	8.46	7.56	7.89	8.07	7.88	8.23	7.70	7.38
Median	7.58	7.37	7.49	7.64	7.56	7.65	7.355	7.59	7.125
Arithmetic Mean	7.49	7.60	7.41	7.51	7.482	7.58	7.502	7.51	7.127
Geometric Mean	7.49	7.58	7.41	7.50	7.467	7.574	7.49	7.51	7.125
Standard Deviation	0.23	0.59	0.21	0.45	0.551	0.349	0.503	0.29	0.216
Coefficient of Variation	0.03	0.08	0.03	0.06	0.074	0.046	0.067	0.04	0.03
Parameter	Lead, Total (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Maximum	0.002	0.006	0.009	0.015	0.016	0.014	0.015	0.020	0.020
Median	0.002	0.004	0.002	0.007	0.013	0.005	0.008	0.014	0.012
Arithmetic Mean	0.002	0.004	0.004	0.007	0.011	0.007	0.008	0.013	0.012
Geometric Mean	0.002	0.003	0.003	0.006	0.008	0.005	0.005	0.009	0.009
Standard Deviation	0.000	0.002	0.003	0.006	0.007	0.005	0.007	0.008	0.007
Coefficient of Variation	0.000	0.550	0.933	0.742	0.603	0.799	0.876	0.608	0.641

Entity	Dallas										
Watershed	Dallas East Bank					Dallas West Bank			Southeast Dallas		
Station	DL 0701a	DL 0701b	DL 0701c	DL 0703a	DL 0703b	DL 0801	DL 0802	DL 0803	DL 0901	DL 0902	DL 0903
Start Date	3/27/2007	3/27/2007	5/8/2007	3/27/2007	3/27/2007	3/3/2008	3/3/2008	3/3/2008	3/11/2009	3/11/2009	3/11/2009
End Date	11/26/2007	11/26/2007	12/10/2007	11/26/2007	12/2/2007	10/15/2008	10/15/2008	11/6/2008	11/16/009	11/16/009	11/16/009
Parameter	Arsenic, Total (mg/L)										
No. of Samples	4	4	3	4	4	4	4	4	5	5	5
Minimum	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.002	0.002	0.002	0.002
Maximum	0.005	0.005	0.010	0.011	0.005	0.006	0.002	0.002	0.006	0.005	0.004
Median	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.002	0.004	0.002	0.002
Arithmetic Mean	0.005	0.005	0.007	0.007	0.005	0.003	0.002	0.002	0.004	0.002	0.002
Geometric Mean	0.005	0.005	0.006	0.006	0.005	0.002	0.002	0.002	0.003	0.002	0.002
Standard Deviation	0.000	0.000	0.003	0.003	0.000	0.002	0.000	0.000	0.002	0.002	0.001
Coefficient of Variation	0.000	0.000	0.433	0.462	0.000	0.857	0.000	0.000	0.568	0.642	0.502
Parameter	Biochemical Oxygen Demand 5-Day (mg/L)										
No. of Samples	4	4	3	4	4	4	4	4	5	5	5
Minimum	4.03	7.56	1.0000	3.22	1.50	0.75	3.56	3.96	3.11	5.73	2.10
Maximum	12.20	31.60	5.66	15.80	8.74	11.70	10.80	15.70	75.10	92.40	76.10
Median	6.60	25.90	4.87	5.71	2.55	7.45	9.24	8.73	7.07	18.70	8.69
Arithmetic Mean	7.36	22.74	3.84	7.61	3.84	6.84	8.21	9.28	21.36	29.99	23.77
Geometric Mean	6.80	19.93	3.02	6.33	3.04	4.67	7.57	8.19	10.38	19.02	10.94
Standard Deviation	3.46	10.81	2.49	5.65	3.31	4.62	3.19	5.10	30.56	35.42	30.99
Coefficient of Variation	0.47	0.48	0.65	0.74	0.86	0.68	0.39	0.55	1.43	1.18	1.30
Parameter	Chemical Oxygen Demand (mg/L)										
No. of Samples	4	4	3	4	4	4	4	4	5	5	5
Minimum	10.00	47.50	10.00	20.80	10.00	2.50	2.50	2.50	16.10	14.90	5.31
Maximum	66.90	244.00	125.00	116.00	41.10	30.50	44.90	30.00	301.00	262.00	257.00
Median	48.25	79.60	19.40	44.45	18.20	14.30	19.60	11.55	40.10	68.00	61.60
Arithmetic Mean	43.35	112.68	51.47	56.43	21.88	15.40	21.65	13.90	90.48	103.46	87.36
Geometric Mean	34.98	90.12	28.95	46.41	18.15	11.13	10.07	7.88	49.23	71.33	48.03
Standard Deviation	25.15	91.24	63.86	41.67	14.97	11.60	22.36	13.71	120.02	94.58	97.95
Coefficient of Variation	0.58	0.81	1.24	0.74	0.68	0.75	1.03	0.99	1.33	0.91	1.12
Parameter	Chromium, Total (mg/L)										
No. of Samples	4	4	3	4	4	4	4	4	5	5	5
Minimum	0.003	0.003	0.003	0.003	0.003	0.001	0.001	0.001	0.002	0.005	0.003
Maximum	0.024	0.013	0.057	0.013	0.006	0.010	0.004	0.001	0.004	0.030	0.014
Median	0.010	0.006	0.003	0.008	0.003	0.006	0.001	0.001	0.003	0.014	0.008
Arithmetic Mean	0.012	0.007	0.021	0.008	0.003	0.006	0.002	0.001	0.003	0.014	0.009
Geometric Mean	0.007	0.005	0.007	0.007	0.003	0.004	0.001	0.001	0.003	0.011	0.008
Standard Deviation	0.011	0.005	0.031	0.005	0.002	0.004	0.002	0.000	0.001	0.010	0.004
Coefficient of Variation	0.933	0.763	1.523	0.583	0.519	0.707	0.857	0.000	0.393	0.716	0.483
Parameter	Copper, Total (mg/L)										
No. of Samples	4	4	3	4	4	4	4	4	5	5	5
Minimum	0.005	0.014	0.005	0.005	0.005	0.002	0.002	0.002	0.005	0.004	0.007
Maximum	0.077	0.043	0.054	0.013	0.017	0.016	0.005	0.006	0.021	0.045	0.026
Median	0.021	0.024	0.005	0.009	0.005	0.003	0.002	0.002	0.010	0.012	0.014
Arithmetic Mean	0.031	0.026	0.021	0.009	0.008	0.006	0.002	0.003	0.011	0.021	0.015
Geometric Mean	0.016	0.024	0.011	0.008	0.007	0.004	0.002	0.002	0.009	0.015	0.014
Standard Deviation	0.034	0.013	0.028	0.004	0.006	0.007	0.002	0.002	0.006	0.018	0.007
Coefficient of Variation	1.096	0.487	1.326	0.497	0.750	1.145	0.737	0.857	0.572	0.860	0.467
Parameter	E. coli (col/100 mL)										
No. of Samples	4	3	2	3	4	4	3	4	5	5	5
Minimum	525	228	123	659	0.5	30	62	602	3448	1,780	565
Maximum	18,000	48,000	260	9,000	1,000	36,540	4,080	64,880	96,106	241,960	241,960
Median	706	689	192	870	30	577	1,565	7,398	24,196	51,720	4,106
Arithmetic Mean	4,984	16,306	192	3,510	265	9,431	1,902	20,069	33,933	109,225	59,784
Geometric Mean	1,472	1,961	179	1,728	25	748	734	4,367	18,621	34,218	6,978
Standard Deviation	8,678	27,449	97	4,756	490	18,076	2,030	30,545	37,504	122,671	104,123
Coefficient of Variation	1.74	1.68	0.51	1.36	1.85	1.92	1.07	1.52	1.11	1.12	1.74
Parameter	Field pH (su)										
No. of Samples	2	2	2	2	2	4	4	4	5	5	5
Minimum	7.60	7.60	7.60	7.70	7.80	7.70	7.42	7.50	7.03	7.40	7.35
Maximum	7.80	7.70	7.80	7.80	7.80	8.23	8.11	7.92	7.97	8.19	8.10
Median	7.70	7.65	7.70	7.75	7.80	7.89	7.65	7.70	7.50	7.56	7.52
Arithmetic Mean	7.70	7.65	7.70	7.75	7.80	7.93	7.71	7.70	7.49	7.68	7.58
Geometric Mean	7.70	7.65	7.70	7.75	7.80	7.92	7.70	7.70	7.48	7.67	7.58
Standard Deviation	0.14	0.07	0.14	0.07	0.00	0.23	0.29	0.19	0.34	0.31	0.30
Coefficient of Variation	0.02	0.01	0.02	0.01	0.00	0.03	0.04	0.02	0.05	0.04	0.04
Parameter	Lab pH (su)										
No. of Samples	2	2	1	2	2	--	--	--	--	--	--
Minimum	7.25	7.78	7.75	7.37	7.91	--	--	--	--	--	--
Maximum	7.91	7.90	7.75	7.60	7.93	--	--	--	--	--	--
Median	7.58	7.84	7.75	7.49	7.92	--	--	--	--	--	--
Arithmetic Mean	7.58	7.84	7.75	7.49	7.92	--	--	--	--	--	--
Geometric Mean	7.57	7.84	7.75	7.48	7.92	--	--	--	--	--	--
Standard Deviation	0.47	0.09	.	0.16	0.01	--	--	--	--	--	--
Coefficient of Variation	0.06	0.01	1.00	0.02	0.00	--	--	--	--	--	--
Parameter	Lead, Total (mg/L)										
No. of Samples	4	4	3	4	4	4	4	4	5	5	5
Minimum	0.006	0.006	0.006	0.006	0.006	0.002	0.001	0.002	0.002	0.008	0.006
Maximum	0.065	0.040	0.116	0.037	0.006	0.014	0.002	0.002	0.017	0.059	0.032
Median	0.025	0.022	0.006	0.019	0.006	0.006	0.002	0.002	0.007	0.017	0.013
Arithmetic Mean	0.030	0.023	0.043	0.020	0.006	0.007	0.002	0.002	0.008	0.028	0.016
Geometric Mean	0.018	0.019	0.016	0.017	0.006	0.006	0.001	0.002	0.006	0.021	0.014
Standard Deviation	0.029	0.014	0.064	0.013	0.000	0.005	0.001	0.000	0.006	0.023	0.010
Coefficient of Variation	0.968	0.617	1.488	0.630	0.000	0.742	0.462	0.000	0.748	0.806	0.601

Entity	Fort Worth								
Watershed	Big Fossil Creek			Marine Creek			Lower Sycamore Creek		
Station	BFC1	BFC2	BFC3	MAR1	MAR2	MAR3	SYC1	SYC2	SYC3
Start Date	6/16/2007	6/16/2007	6/16/2007	12/1/09	12/1/09	12/1/09	12/9/08	12/18/2008	12/18/2008
End Date	7/20/2007	8/1/2007	6/16/2007	12/1/09	12/1/09	12/1/09	12/9/08	12/18/2008	12/18/2008
Parameter	Arsenic, Total (mg/L)								
No. of Samples	2	2	1	1	1	1	1	1	1
Minimum	0.013	0.011	0.013	0.001	0.001	0.001	0.001	0.003	0.003
Maximum	0.025	0.013	0.013	0.001	0.001	0.001	0.001	0.003	0.003
Median	0.019	0.012	0.013	0.001	0.001	0.001	0.001	0.003	0.003
Arithmetic Mean	0.019	0.012	0.013	0.001	0.001	0.001	0.001	0.003	0.003
Geometric Mean	0.018	0.012	0.013	0.001	0.001	0.001	0.001	0.003	0.003
Standard Deviation	0.009	0.001	.	.	.	.	.	.	.
Coefficient of Variation	0.471	0.090	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Parameter	Biochemical Oxygen Demand 5-Day (mg/L)								
No. of Samples	2	2	1	1	1	1	1	1	1
Minimum	1.00	1.00	1.00	5.40	6.20	7.90	1.00	0.23	0.23
Maximum	5.00	2.00	1.00	5.40	6.20	7.90	1.00	0.23	0.23
Median	3.00	1.50	1.00	5.40	6.20	7.90	1.00	0.23	0.23
Arithmetic Mean	3.00	1.50	1.00	5.40	6.20	7.90	1.00	0.23	0.23
Geometric Mean	2.24	1.41	1.00	5.40	6.20	7.90	1.00	0.23	0.23
Standard Deviation	2.83	0.71	.	.	.	.	.	.	.
Coefficient of Variation	0.94	0.47	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parameter	Chemical Oxygen Demand (mg/L)								
No. of Samples	2	2	1	1	1	1	1	1	1
Minimum	11.00	32.00	63.00	48.30	46.30	2.10	18.50	13.00	15.80
Maximum	213.00	209.00	63.00	48.30	46.30	2.10	18.50	13.00	15.80
Median	112.00	120.50	63.00	48.30	46.30	2.10	18.50	13.00	15.80
Arithmetic Mean	112.00	120.50	63.00	48.30	46.30	2.10	18.50	13.00	15.80
Geometric Mean	48.41	81.78	63.00	48.30	46.30	2.10	18.50	13.00	15.80
Standard Deviation	142.84	125.16	.	.	.	.	.	.	.
Coefficient of Variation	1.28	1.04	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parameter	Chromium, Total (mg/L)								
No. of Samples	2	2	1	1	1	1	1	1	1
Minimum	0.003	0.003	0.003	0.001	0.001	0.001	0.001	0.001	0.001
Maximum	0.003	0.013	0.003	0.001	0.001	0.001	0.001	0.001	0.001
Median	0.003	0.008	0.003	0.001	0.001	0.001	0.001	0.001	0.001
Arithmetic Mean	0.003	0.008	0.003	0.001	0.001	0.001	0.001	0.001	0.001
Geometric Mean	0.003	0.006	0.003	0.001	0.001	0.001	0.001	0.001	0.001
Standard Deviation	0.000	0.007	.	.	.	.	.	.	.
Coefficient of Variation	0.000	0.943	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Parameter	Copper, Total (mg/L)								
No. of Samples	2	2	1	1	1	1	1	1	1
Minimum	0.003	0.003	0.003	0.009	0.012	0.003	0.003	0.010	0.009
Maximum	0.005	0.005	0.003	0.009	0.012	0.003	0.003	0.010	0.009
Median	0.004	0.004	0.003	0.009	0.012	0.003	0.003	0.010	0.009
Arithmetic Mean	0.004	0.004	0.003	0.009	0.012	0.003	0.003	0.010	0.009
Geometric Mean	0.003	0.004	0.003	0.009	0.012	0.003	0.003	0.010	0.009
Standard Deviation	0.001	0.001	.	.	.	.	.	.	.
Coefficient of Variation	0.418	0.290	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Parameter	E. coli (col/100 mL)								
No. of Samples	2	2	1	1	1	1	1	1	1
Minimum	46	461	15.531.000	579	12,033	1986	38	75	93
Maximum	517	1,986	15.531.000	579	12,033	1986	38	75	93
Median	282	1,224	15.531.000	579	12,033	1986	38	75	93
Arithmetic Mean	282	1,224	15.531.000	579	12,033	1986	38	75	93
Geometric Mean	154	957	15.531.000	579	12,033	1986	38	75	93
Standard Deviation	333	1,078	.	.	.	.	.	.	.
Coefficient of Variation	1.18	0.88	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parameter	Field pH (su)								
No. of Samples	2	2	1	1	1	1	--	--	--
Minimum	7.78	7.70	7.80	7.76	6.98	7.74	--	--	--
Maximum	8.10	8.10	7.80	7.76	6.98	7.74	--	--	--
Median	7.94	7.90	7.80	7.76	6.98	7.74	--	--	--
Arithmetic Mean	7.94	7.90	7.80	7.76	6.98	7.74	--	--	--
Geometric Mean	7.94	7.90	7.80	7.76	6.98	7.74	--	--	--
Standard Deviation	0.23	0.28	.	.	.	.	--	--	--
Coefficient of Variation	0.03	0.04	1.00	1.00	1.00	1.00	--	--	--
Parameter	Lab pH (su)								
No. of Samples	--	--	--	--	--	--	1	1	1
Minimum	--	--	--	--	--	--	7.38	7.83	7.92
Maximum	--	--	--	--	--	--	7.38	7.83	7.92
Median	--	--	--	--	--	--	7.38	7.83	7.92
Arithmetic Mean	--	--	--	--	--	--	7.38	7.83	7.92
Geometric Mean	--	--	--	--	--	--	7.38	7.83	7.92
Standard Deviation	--	--	--	--	--	--	.	.	.
Coefficient of Variation	--	--	--	--	--	--	1.00	1.00	1.00
Parameter	Lead, Total (mg/L)								
No. of Samples	2	2	1	1	1	1	1	1	1
Minimum	0.013	0.013	0.013	0.008	0.009	0.003	0.001	0.002	0.002
Maximum	0.025	0.025	0.013	0.008	0.009	0.003	0.001	0.002	0.002
Median	0.019	0.019	0.013	0.008	0.009	0.003	0.001	0.002	0.002
Arithmetic Mean	0.019	0.019	0.013	0.008	0.009	0.003	0.001	0.002	0.002
Geometric Mean	0.018	0.018	0.013	0.008	0.009	0.003	0.001	0.002	0.002
Standard Deviation	0.009	0.009	.	.	.	.	.	.	.
Coefficient of Variation	0.471	0.471	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Table E-1 (Cont.)

Summary Statistics of Sampled Data

Entity	Arlington									Dallas											Fort Worth								
Watershed	Rush Creek			Johnson Creek			Mountain Creek			Dallas East Bank					Dallas West Bank			Southeast Dallas			Big Fossil Creek			Marine Creek			Lower Sycamore Creek		
Station	AR 0701	AR 0702	AR 0703	AR 0801	AR 0802	AR 0803	AR 0901	AR 0902	AR 0903	DL 0701a	DL 0701b	DL 0701c	DL 0703a	DL 0703b	DL 0801	DL 0802	DL 0803	DL 0901	DL 0902	DL 0903	BFC1	BFC2	BFC3	MAR1	MAR2	MAR3	SYC1	SYC2	SYC3
Parameter	Nitrogen, Total (mg/L)																												
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	2	2	1	1	1	1	1	1	1
Minimum	0.86	1.2	0.025	0.025	0.025	0.025	0.025	0.025	0.025	1.150	1.600	0.458	0.500	0.683	0.225	0.225	0.460	1.340	1.900	1.900	0.640	0.115	0.115	1.100	2.000	1.800	0.750	0.620	0.460
Maximum	23.90	91.000	42.000	5.000	3.000	3.00	2.600	5.200	4.200	7.43	2.750	2.080	3.74	1.680	1.310	1.29	1.73	4.91	40.600	4.220	1.010	0.329	0.155	1.100	2.00	1.800	0.750	0.620	0.460
Median	7.500	9.750	14.090	1.050	2.270	0.725	1.100	1.400	2.150	3.345	2.030	1.010	2.350	0.979	1.125	0.931	1.010	2.360	3.450	2.505	0.825	0.222	0.115	1.100	2.000	1.800	0.750	0.620	0.460
Arithmetic Mean	9.94	27.925	17.551	1.781	1.891	1.119	1.206	2.006	2.131	3.818	2.103	1.183	2.24	1.080	0.946	0.844	1.053	2.743	12.350	2.782	0.825	0.222	0.115	1.100	2.000	1.800	0.750	0.620	0.460
Geometric Mean	4.119	9.887	3.476	0.609	0.781	0.387	0.511	0.687	0.834	2.790	2.063	0.987	1.793	1.023	0.781	0.703	0.945	2.414	5.419	2.650	0.804	0.195	0.115	1.100	2.000	1.800	0.750	0.620	0.460
Standard Deviation	11.16	42.302	18.688	2.200	1.338	1.354	1.108	2.263	1.709	3.099	0.477	0.825	1.330	0.427	0.489	0.47	0.531	1.610	18.860	1.041	0.262	0.151	.	.	.	.	.	.	.
Coefficient of Variation	1.12	1.52	1.07	1.24	0.71	1.21	0.92	1.13	0.80	0.81	0.23	0.70	0.60	0.40	0.52	0.55	0.51	0.59	1.53	0.37	0.32	0.68	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parameter	Oil and Grease (mg/L)																												
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	5	5	5	2	2	1	1	1	1	1	1	1
Minimum	0.70	0.70	0.70	1.39	0.70	0.70	0.70	0.70	0.70	2.50	2.50	2.50	2.50	2.50	0.53	0.53	0.53	0.55	0.55	0.55	2.65	2.60	36.20	1.60	1.30	1.00	3.80	0.43	0.43
Maximum	6.00	11.60	2.78	263.00	5.00	3.70	3.30	6.70	9.60	2.50	2.50	2.50	2.50	2.50	1.85	2.63	0.53	4.90	4.60	2.20	2.70	17.80	36.20	1.60	1.30	1.00	3.80	0.43	0.43
Median	2.85	0.70	0.70	3.61	1.78	1.33	1.30	4.00	3.20	2.50	2.50	2.50	2.50	2.50	0.53	0.53	0.53	0.55	0.55	0.55	2.68	10.20	36.20	1.60	1.30	1.00	3.80	0.43	0.43
Arithmetic Mean	3.10	3.43	1.22	67.90	2.31	1.76	1.65	3.85	4.18	2.50	2.50	2.50	2.50	2.50	0.86	1.06	0.53	1.65	1.97	0.88	2.68	10.20	36.20	1.60	1.30	1.00	3.80	0.43	0.43
Geometric Mean	1.96	1.41	0.99	7.97	1.81	1.46	1.32	2.93	2.71	2.50	2.50	2.50	2.50	2.50	0.72	0.79	0.53	1.07	1.23	0.73	2.68	6.80	36.20	1.60	1.30	1.00	3.80	0.43	0.43
Standard Deviation	2.80	5.45	1.04	130.08	1.88	1.33	1.24	2.50	4.00	0.00	0.00	0.00	0.00	0.00	0.66	1.05	0.00	1.88	1.98	0.74	0.04	10.75	.	.	.	.	.	.	.
Coefficient of Variation	0.90	1.59	0.85	1.92	0.81	0.75	0.75	0.65	0.96	0.00	0.00	0.00	0.00	0.00	0.77	1.00	0.00	1.14	1.00	0.84	0.01	1.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parameter	Phosphorus, Dissolved (mg/L)																												
No. of Samples	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4	4	5	5	5	2	2	1	1	1	1	1	1	1
Minimum	0.025	0.025	0.025	0.05	0.025	0.025	0.025	0.025	0.025	0.005	0.029	0.039	0.067	0.005	0.003	0.003	0.015	0.088	0.127	0.072	0.06	0.1	0.14	0.11	0.095	0.041	0.031	0.017	0.017
Maximum	0.025	0.025	0.025	0.110	0.050	0.110	0.080	0.100	0.140	0.316	0.157	0.175	0.149	0.097	0.297	0.14	0.210	0.699	0.405	0.281	0.190	0.290	0.14	0.11	0.095	0.041	0.031	0.017	0.017
Median	0.025	0.025	0.025	0.060	0.038	0.075	0.038	0.060	0.048	0.077	0.099	0.104	0.095	0.021	0.011	0.023	0.128	0.243	0.179	0.178	0.125	0.195	0.14	0.11	0.095	0.041	0.031	0.017	0.017
Arithmetic Mean	0.025	0.025	0.025	0.070	0.038	0.071	0.045	0.061	0.065	0.119	0.095	0.106	0.102	0.036	0.081	0.048	0.120	0.315	0.232	0.159	0.125	0.195	0.14	0.11	0.095	0.041	0.031	0.017	0.017
Geometric Mean	0.025	0.025	0.025	0.066	0.035	0.061	0.040	0.054	0.050	0.054	0.077	0.089	0.097	0.021	0.014	0.014	0.083	0.243	0.207	0.139	0.107	0.170	0.14	0.11	0.095	0.041	0.031	0.017	0.017
Standard Deviation	0.000	0.000	0.000	0.028	0.014	0.040	0.026	0.032	0.054	0.137	0.064	0.068	0.034	0.041	0.145	0.066	0.085	0.247	0.125	0.088	0.092	0.134	.	.	.	.	.	.	.
Coefficient of Variation	0.000	0.000	0.000	0.404	0.385	0.568	0.581	0.518	0.836	1.154	0.675	0.642	0.338	1.152	1.796	1.378	0.705	0.784	0.540	0.551	0.735	0.689	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Parameter	Phosphorus, Total (mg/L)																												
No. of Samples	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4	4	5	5	5	2	2	1	1	1	1	1	1	1
Minimum	0.025	0.025	0.025	0.025	0.025	0.050	0.025	0.025	0.140	0.136	0.313	0.077	0.304	0.039	0.013	0.090	0.036	0.224	0.316	0.268	0.040	0.005	0.190	0.17	0.16	0.053	0.036	0.051	0.028
Maximum	0.335	0.220	0.380	0.130	0.139	0.110	0.170	0.340	0.320	2.210	0.620	0.323	1.850	0.545	0.160	0.891	0.501	1.350	0.557	0.655	0.190	0.290	0.190	0.17	0.16	0.053	0.036	0.051	0.028
Median	0.123	0.134	0.042	0.080	0.090	0.085	0.135	0.220	0.220	0.974	0.388	0.156	0.538	0.149	0.103	0.127	0.240	0.258	0.458	0.420	0.115	0.147	0.190	0.17	0.16	0.053	0.036	0.051	0.028
Arithmetic Mean	0.151	0.128	0.122	0.079	0.086	0.083	0.116	0.201	0.225	1.073	0.440	0.185	0.808	0.221	0.095	0.309	0.254	0.538	0.449	0.454	0.115	0.147	0.190	0.17	0.16	0.053	0.036	0.051	0.028
Geometric Mean	0.082	0.090	0.061	0.065	0.072	0.079	0.093	0.141	0.215	0.695	0.422	0.157	0.635	0.145	0.067	0.189	0.177	0.413	0.441	0.431	0.087	0.038	0.190	0.17	0.16	0.053	0.036	0.051	0.028
Standard Deviation	0.153	0.101	0.173	0.049	0.050	0.028	0.066	0.134	0.078	0.920	0.160	0.126	0.704	0.225	0.064	0.389	0.195	0.479	0.095	0.158	0.106	0.202	.	.	.	.	.	.	.
Coefficient of Variation	1.013	0.791	1.416	0.627	0.576	0.334	0.570	0.668	0.345	0.857	0.363	0.678	0.871	1.018	0.677	1.259	0.769	0.891	0.211	0.348	0.922	1.366	1.000	1	1	1	1	1	1
Parameter	Total Coliforms (mg/L)																												
No. of Samples	4	4	4	4	4	4	4	4	4	4	3	2	3	4	4	3	4	5	5	5	2	2	1	1	1	1	1	1	1
Minimum	5	2,500	3,600	4,200	9,180	173	11,000	8,400	140,000	4,300	12,400	3,600	18,300	20,000	1,010	20,000	1,010	101,120	241,960	30,760	24,192	17,329	98,040	9,804	77,010	24,192	1,414	1,986	1,413
Maximum	396,000	198,000	482,000	75,000	3,200,000	110,000	3,500,000	1,120,000	5,200,000	50,000	50,000	12,300	1,000,000	60,000	241,960	241,960	241,960	241,960	241,960	241,960	68,670	57,940	98,040	9,804	77,010	24,192	1,414	1,986	1,413
Median	109,900	56,100	26,850	25,700	190,000	34,550	970,000	315,000	925,000	22,500	40,000	7,950	150,000	37,500	11,749	241,960	38,530	241,960	241,960	241,960	46,431	37,635	98,040	9,804	77,010	24,192	1,414	1,986	1,413
Arithmetic Mean	153,951	78,175	134,825	32,650	897,295	44,818	1,362,750	439,600	1,797,500	24,825	34,133	7,950	389,433	38,750	66,617	167,973	80,008	200,058	241,960	191,054	46,431	37,635	98,040	9,804	77,010	24,192	1,414	1,986	1,413
Geometric Mean	7,564	28,498	26,249	16,442	171,865	7,193	360,111	166,148	88,384	17,637	29,162	6,654	140,017	36,002	13,250	105,340	24.493.559	190,094	241,960	153,976	40,759	31,687	98,040	9,804	77,010	24,192	1,414	1,986	1,413
Standard Deviation	188,871	90,717	232,352	34,431	1,538,888	53,413	1,603,306	488,664	2,298,324	19,819	19,474	6,152	532,851	16,520	117,039	128,149	109,443	62,794	0	91,550	31,451	28,716	.	.	.	.	.	.	.
Coefficient of Variation	1.23	1.16	1.72	1.06	1.72	1.19	1.18	1.11	1.28	0.80	0.57	0.77	1.37	0.43	1.76	0.76	1.37	0.31	0.00	0.48	0.68	0.76	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parameter	Total Dissolved Solids (mg/L)																												
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	5	5	5	2	2	1	1	1	1	1	1	1
Minimum	95.0	92.0	283.0	132.0	200.0	296.0	90.0	88.0	90.0	324.0	132.0	240.0	152.0	272.0	95.0	167.0	28.0	32.0	60.0	32.0	330.0	330.0	340.0	204.0	268.0	308.0	1610.0	44.0	446.0
Maximum	1040.0	1330.0	1500.0	506.0	688.0	530.0	268.0	412.0	356.0	364.0	454.0	328.0	450.0	470.0	721.0	420.0	636.0	320.0	220.0	236.0	459.0	370.0	340.0	204.0	268.0	308.0	1610.0	44.0	446.0
Median	285.0	356.0	377.5	263.0	384.0	401.0	182.0	146.0	128.0	328.0	222.0	282.0	278.0	383.0	332.0	263.0	188.0	202.0	128.0	126.0	394.5	350.0	340.0	204.0	268.0	308.0	1610.0	44.0	446.0
Arithmetic Mean	426.3	533.5	634.5	291.0	414.0	407.0	180.5	198.0	175.5	336.0	257.5	283.3	289.5	377.0	370.0	278.3	260.0	185.2	127.6	124.4	394.5	350.0	340.0	204.0	268.0	308.0	1610.0	44.0	446.0
Geometric Mean	299.3	336.5	495.7	257.4	373.9	392.3	164.9	166.5	150.4	335.6	232.7	281.0	269.4	365.8	281.1	263.2	158.4	147.5	115.7	98.3	389.2	349.4	340.0	204.0	268.0	308.0	1610.0	44.0	446.0
Standard Deviation	418.9	558.6	578.9	163.3	211.0	125.3	83.4	145.5	122.8	19.0	138.5	44.0	123.3	104.7	282.7	107.1	261.8	104.6	61.9	83.6	91.2	28.3	.	.	.	.	.	.	.
Coefficient of Variation	0.98	1.05	0.91	0.56	0.51	0.31	0.46	0.74	0.70	0.57	0.54	0.16	0.43	0.28	0.76	0.39	1.01	0.57	0.49	0.67	0.23	0.08	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parameter	Total Suspended Solids (mg/L)																												
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	5	5	5	2	2	1	1	1	1	1	1	1
Minimum	24.70	23.00	1.77	21.00	17.50	5.33	30.00	4.00	34.00	60.00	10.00	2.50	5.00	6.00	2.50	27.00	2.50	15.00	39.00	57.00	34.00	1.00	1.00	47.30	42.00	5.70	1.00	3.20	3.67
Maximum	1360.00	742.00	252.00	160.70	426.00	326.00	930.00	808.00	314.00	1770.00	900.00	1010.00	1460.00	224.00	81.00	73.00	61.00	270.00	622.00	1200.00	502.00	61.00	1.00	47.30	42.00	5.70	1.00	3.20	3.67
Median	330.00	159.50	166.50	51.52	162.35	10.00	144.00	339.50	153.50	469.50	142.00	38.00	107.00	13.75	52.00	51.50	27.50	52.00	132.00	227.00	268.00	31.00	1.00	47.30	42.00	5.70	1.00	3.20	3.67
Arithmetic Mean	511.18	271.00	146.69	71.18	192.05	87.83	312.00	372.75	163.75	692.25	298.50	350.17	419.75	64.38	46.88	50.75	29.63	89.60	256.60	386.80	268.00	31.00	1.00	47.30	42.00	5.70	1.00	3.20	3.67
Geometric Mean	182.85	141.84	59.12	54.65	84.55	20.04	150.19	130.30	122.94	387.71	113.44	45.78	91.89	22.41	27.19	45.80	18.39	54.15	151.66	221.70	130.65	7.81	1.00	47.30	42.00	5.70	1.00	3.20	3.67
Standard Deviation	625.58	322.31	105.77	61.44	204.91	158.81	417.49	355.81	121.03	747.40	407.25	571.71	695.97	106.48	32.63	25.17	24.10	104.39	258.17	469.10	330.93	42.43	.	.	.	.	.	.	.
Coefficient of Variation	1.22	1.19	0.72	0.86	1.07	1.81	1.34	0.96	0.74	1.08	1.36	1.63	1.66	1.65	0.70	0.50	0.81	1.17	1.01	1.21	1.24	1.37	1.000	1.00	1.00	1.00	1.000	1.00	1.00
Parameter	Zinc (mg/L)																												
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	5	5	5	2	2	1	1	1	1	1	1	1
Minimum	0.002	0.013	0.026	0.019	0.025	0.026	0.002	0.002	0.007	0.013	0.025	0.005	0.013	0.005	0.002	0.002	0.007	0.024	0.031	0.030	0.003	0.008	0.007	0.064	0.048	0.010	0.019	0.009	0.025
Maximum	0.059	0.108	0.066	0.055	0.122	0.039	0.168	0.155	0.129	0.199	0.137	0.189	0.064	0.040	0.108	0.025	0.031	0.076	0.215	0.128	0.011	0.038	0.007	0.064	0.048	0.010	0.019	0.009	0.025
Median	0.044	0.059	0.041	0.040	0.063	0.032	0.049	0.083	0.081	0.081	0.081	0.020	0.026	0.020	0.023	0.022	0.029	0.041	0.054	0.069	0.007	0.023	0.007	0.064	0.048	0.010	0.019	0.009	0.025
Arithmetic Mean	0.037	0.060	0.044	0.039	0.068	0.032	0.067	0.081	0.075	0.093	0.081	0.071	0.032	0.021	0.039	0.018	0.024	0.046	0.101	0.073	0.007	0.023	0.007	0.064	0.048	0.010	0.019	0.009	0.025
Geometric Mean	0.020	0.046	0.041	0.035	0.055	0.032	0.028	0.036	0.049	0.048	0.066	0.027	0.027	0.017	0.017	0.012	0.021	0.042	0.074	0.066	0.005	0.017	0.007	0.064	0.048	0.010	0.019	0.009	0.025
Standard Deviation	0.025	0.041	0.017	0.017	0.047	0.006	0.071	0.063	0.051	0.095	0.053	0.102	0.022	0.015	0.047	0.011	0.011	0.020	0.086	0.035	0.006	0.021	.	.	.	.	.	.	.
Coefficient of Variation	0.668	0.692	0.395	0.429	0.688	0.172	1.064	0.781	0.685	1.013	0.655	1.432	0.684	0.703	1.214	0.615	0.475	0.444	0.845	0.482	0.874	0.938	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Table E-1 (Cont.)

Summary Statistics of Sampled Data

Entity	Garland									Irving								
Watershed	Duck Creek			Spring Creek			Lower Rowlett Creek			Cottonwood Branch			Delaware Creek			Big Bear Creek		
Station	GA 0701	GA 0702	GA 0703	GA 0801	GA 0802	GA 0803	GA 0901	GA 0902	GA 0903	IR 0701	IR 0702	IR 0703	IR 0801	IR 0802	IR 0803	IR 0901	IR 0902	IR 0903
Start Date	1/12/2007	1/12/2007	1/12/2007	1/25/2008	1/25/2008	1/25/2008	1/5/2009	1/5/2009	2/9/2009	1/3/2007	1/3/2007	1/3/2007	2/5/2008	2/12/2008	2/12/2008	3/25/2009	2/9/2009	3/11/2009
End Date	10/14/2007	12/11/2007	10/22/2007	10/6/2008	10/6/2008	10/15/2008	10/1/2009	10/1/2009	10/1/2009	10/15/2007	10/15/2007	10/22/2007	10/6/2008	10/6/2008	10/6/2008	10/9/2009	10/21/2009	10/21/2009
Parameter	Arsenic, Total (mg/L)																	
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Maximum	0.050	0.008	0.022	0.010	0.010	0.001	0.006	0.006	0.004	0.005	0.015	0.004	0.010	0.006	0.005	0.060	0.005	0.005
Median	0.014	0.002	0.004	0.005	0.003	0.001	0.005	0.004	0.002	0.002	0.005	0.001	0.003	0.005	0.005	0.003	0.001	0.003
Arithmetic Mean	0.020	0.003	0.008	0.005	0.004	0.001	0.004	0.004	0.002	0.002	0.006	0.002	0.004	0.004	0.004	0.017	0.002	0.003
Geometric Mean	0.009	0.002	0.004	0.003	0.003	0.001	0.003	0.003	0.002	0.002	0.004	0.001	0.003	0.003	0.003	0.004	0.001	0.002
Standard Deviation	0.022	0.003	0.010	0.004	0.004	0.000	0.002	0.002	0.001	0.002	0.006	0.002	0.004	0.002	0.002	0.029	0.002	0.002
Coefficient of Variation	1.142	1.122	1.244	0.849	1.005	0.000	0.540	0.591	0.707	0.841	0.927	0.857	1.021	0.540	0.505	1.725	1.000	0.750
Parameter	Biochemical Oxygen Demand 5-Day (mg/L)																	
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	1.50	6.19	1.50	1.00	1.00	1.00	1.84	2.68	0.20	1.50	1.50	3.63	8.56	21.00	1.00	5.88	2.69	2.39
Maximum	23.00	19.00	14.60	13.00	5.76	7.08	9.96	12.30	5.89	19.60	135.00	9.26	39.70	29.90	27.00	280.00	7.19	12.40
Median	7.13	11.10	7.51	4.83	3.25	3.20	4.19	5.15	2.44	5.53	4.77	4.96	24.70	26.05	14.20	16.71	4.88	6.60
Arithmetic Mean	9.69	11.85	7.78	5.92	3.32	3.62	5.04	6.32	2.74	8.04	36.51	5.70	24.42	25.75	14.10	79.83	4.91	7.00
Geometric Mean	6.43	10.96	5.69	3.55	2.56	2.69	4.10	5.34	1.62	4.53	7.03	5.36	21.24	25.46	8.51	23.96	4.56	5.88
Standard Deviation	9.31	5.34	5.86	5.74	2.41	2.89	3.66	4.30	2.37	8.59	65.73	2.45	13.00	4.47	10.84	133.75	2.08	4.37
Coefficient of Variation	0.96	0.45	0.75	0.97	0.73	0.80	0.73	0.68	0.86	1.07	1.80	0.43	0.53	0.17	0.77	1.68	0.43	0.63
Parameter	Chemical Oxygen Demand (mg/L)																	
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	16.20	17.60	1.00	10.00	5.00	7.10	2.15	18.00	6.82	5.00	14.80	22.90	30.70	47.10	22.70	38.00	20.30	23.00
Maximum	62.00	268.00	37.80	68.90	26.00	21.00	52.00	87.00	50.00	102.00	120.00	130.00	97.40	95.00	82.30	410.00	92.00	83.00
Median	37.80	41.50	22.10	46.60	6.80	9.90	33.25	36.80	22.60	28.00	28.55	35.55	75.55	69.50	36.15	52.50	31.10	27.35
Arithmetic Mean	38.45	92.15	20.75	43.03	11.15	11.98	30.16	44.65	25.51	40.75	47.98	56.00	69.80	70.28	44.33	138.25	43.63	40.18
Geometric Mean	33.67	52.51	11.15	34.97	8.78	10.80	18.29	38.08	20.40	24.47	34.55	44.02	63.90	66.51	39.53	80.54	35.65	34.54
Standard Deviation	21.20	118.09	16.76	24.41	9.95	6.52	22.29	29.71	17.99	42.88	48.54	49.71	29.55	26.24	26.10	181.40	33.68	28.65
Coefficient of Variation	0.55	1.28	0.81	0.57	0.89	0.54	0.74	0.67	0.71	1.05	1.01	0.89	0.42	0.37	0.59	1.31	0.77	0.71
Parameter	Chromium, Total (mg/L)																	
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003
Maximum	0.012	0.012	0.007	0.010	0.010	0.004	0.005	0.005	0.002	0.041	0.019	0.013	0.010	0.009	0.005	0.003	0.007	0.010
Median	0.007	0.006	0.004	0.004	0.004	0.002	0.005	0.004	0.002	0.007	0.007	0.003	0.003	0.003	0.002	0.002	0.002	0.005
Arithmetic Mean	0.007	0.006	0.004	0.005	0.005	0.003	0.004	0.003	0.002	0.014	0.008	0.005	0.004	0.004	0.003	0.002	0.003	0.006
Geometric Mean	0.005	0.005	0.004	0.004	0.004	0.002	0.003	0.003	0.002	0.007	0.006	0.003	0.003	0.003	0.002	0.002	0.002	0.005
Standard Deviation	0.004	0.005	0.002	0.004	0.004	0.001	0.002	0.001	0.000	0.018	0.007	0.005	0.004	0.004	0.002	0.001	0.003	0.003
Coefficient of Variation	0.650	0.723	0.545	0.741	0.845	0.490	0.426	0.442	0.000	1.283	0.893	1.033	0.894	0.840	0.603	0.385	0.957	0.491
Parameter	Copper, Total (mg/L)																	
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.019	0.013	0.004	0.016	0.018	0.016	0.005	0.004	0.004	0.004	0.004	0.004	0.027	0.021	0.005	0.013	0.004	0.042
Maximum	0.024	0.033	0.027	0.049	0.041	0.029	0.054	0.028	0.043	0.038	0.026	0.023	0.043	0.047	0.042	0.617	0.058	0.116
Median	0.021	0.024	0.019	0.037	0.035	0.022	0.025	0.007	0.028	0.011	0.016	0.013	0.036	0.036	0.020	0.036	0.033	0.056
Arithmetic Mean	0.021	0.024	0.017	0.035	0.032	0.022	0.028	0.011	0.026	0.016	0.016	0.013	0.036	0.035	0.022	0.176	0.032	0.068
Geometric Mean	0.021	0.022	0.014	0.031	0.030	0.021	0.017	0.008	0.019	0.010	0.013	0.009	0.035	0.034	0.017	0.056	0.022	0.063
Standard Deviation	0.002	0.009	0.009	0.016	0.011	0.007	0.025	0.011	0.017	0.016	0.010	0.011	0.008	0.011	0.015	0.294	0.022	0.033
Coefficient of Variation	0.093	0.362	0.549	0.472	0.336	0.307	0.898	1.004	0.646	1.000	0.619	0.804	0.217	0.307	0.707	1.676	0.702	0.487
Parameter	E. coli (col/100 mL)																	
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	5	5	5	50	280	0.5	0.5	90	70	90	54	26	1,460.00	0.5	1,700	0.5	200	500
Maximum	8,000	144,000	1,700	700,000	70,000	19,000	3,100	4,800	1,100	8,670	10,000	1,330	300,000	18,700	13,200	240,000	5,000	5,000
Median	890	38,295	1,185	11,955	16,228	189	1,390	600	110	1,650	1,500	645	23,850	1,455	7,180	2,650	1,480	1,750
Arithmetic Mean	2,446	55,149	1,019	180,990	25,684	4,845	1,470	1,523	348	3,015	3,264	662	87,290	5,403	7,315	61,325	2,040	2,250
Geometric Mean	293	1,798	329	5,201	4,110	136	135	467	175	1,092	831	247	19,590	366	5,593	932	1,110	1,603
Standard Deviation	3,780	69,300	734	346,170	33,094	9,437	1,659	2,236	502	3,919	4,642	699	142,743	8,899	5,231	119,125	2,169	1,997
Coefficient of Variation	1.55	1.26	0.72	1.91	1.29	1.95	1.13	1.47	1.45	1.30	1.42	1.06	1.64	1.65	0.72	1.94	1.06	0.89
Parameter	Field pH (su)																	
No. of Samples	4	4	4	4	4	4	4	4	4	2	2	2	4	4	5	4	4	3
Minimum	6.99	7.46	7.34	7.91	8.35	7.35	7.74	7.82	7.60	6.87	7.05	7.03	7.42	7.70	7.60	7.70	7.80	7.99
Maximum	8.04	8.15	7.91	9.95	9.30	9.01	9.10	9.41	9.30	7.57	7.31	7.30	7.84	8.20	8.38	8.11	8.14	8.18
Median	7.74	7.80	7.47	8.50	8.84	7.91	8.35	8.78	8.56	7.22	7.18	7.17	7.77	8.01	7.88	7.93	7.99	8.11
Arithmetic Mean	7.63	7.80	7.55	8.71	8.83	8.05	8.39	8.70	8.51	7.22	7.18	7.17	7.70	7.98	7.90	7.92	7.98	8.09
Geometric Mean	7.62	7.80	7.54	8.67	8.82	8.02	8.36	8.67	8.47	7.21	7.18	7.16	7.70	7.98	7.89	7.91	7.98	8.09
Standard Deviation	0.45	0.32	0.26	0.96	0.42	0.70	0.74	0.69	0.88	0.50	0.18	0.19	0.20	0.22	0.33	0.17	0.16	0.10
Coefficient of Variation	0.06	0.04	0.04	0.11	0.05	0.09	0.09	0.08	0.10	0.07	0.03	0.03	0.03	0.03	0.04	0.02	0.02	0.01
Parameter	Lab pH (su)																	
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4
Minimum	7.33	7.39	7.22	6.85	6.94	6.93	7.53	7.60	7.53	7.02	7.18	7.48	6.82	7.11	6.85	6.50	7.60	7.55
Maximum	7.75	7.93	7.51	7.79	7.86	8.08	7.88	7.99	7.91	8.12	7.90	7.69	7.64	8.01	7.81	7.25	8.15	8.00
Median	7.55	7.47	7.44	7.56	7.45	7.90	7.74	7.71	7.70	7.24	7.80	7.64	7.18	7.57	7.14	6.82	7.71	7.68
Arithmetic Mean	7.54	7.57	7.40	7.44	7.43	7.70	7.72	7.75	7.71	7.40	7.67	7.61	7.21	7.56	7.27	6.85	7.79	7.72
Geometric Mean	7.54	7.56	7.40	7.43	7.42	7.69	7.72	7.75	7.71	7.39	7.66	7.61	7.20	7.56	7.26	6.84	7.79	7.71
Standard Deviation	0.19	0.25	0.13	0.41	0.40	0.52	0.15	0.17	0.17	0.51	0.33	0.09	0.34	0.37	0.44	0.31	0.25	0.17
Coefficient of Variation	0.03	0.03	0.02	0.06	0.05	0.07	0.02	0.02	0.02	0.07	0.04	0.01	0.05	0.05	0.06	0.05	0.03	0.02
Parameter	Lead, Total (mg/L)																	
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.007	0.005	0.005	0.006	0.002	0.002
Maximum	0.020	0.014	0.009	0.036	0.062	0.018	0.011	0.006	0.010	0.009	0.002	0.002	0.015	0.033	0.015	0.351	0.014	0.013
Median	0.002	0.009	0.002	0.011	0.011	0.008	0.005	0.005	0.002	0.002	0.002	0.002	0.010	0.014	0.010	0.009	0.006	0.011
Arithmetic Mean	0.007	0.008	0.003	0.015	0.021	0.009	0.006	0.005	0.004	0.004	0.002	0.002	0.011	0.017	0.010	0.094	0.007	0.009
Geometric Mean	0.004	0.006	0.002	0.010	0.011	0.007	0.005	0.004	0.003	0.003	0.002	0.001	0.010	0.013	0.010	0.020	0.005	0.007
Standard Deviation	0.009	0.006	0.004	0.015	0.027	0.007	0.004	0.002	0.004	0.003	0.000	0.001	0.003	0.012	0.004	0.171	0.006	0.005
Coefficient of Variation	1.385	0.743	1.131	0.977	1.272	0.759	0.704	0.399	1.000	0.933	0.000	0.462	0.316	0.716	0.401	1.823	0.853	0.540

Entity	Mesquite								
Watershed	South Mesquite Creek			North Mesquite Creek			South Mesquite Creek		
Station	MS 0701	MS 0702	MS 0703	MS 0801	MS 0802	MS 0803	MS 0901	MS 0902	MS 0903
Start Date	1/3/2007	1/12/2007	1/12/2007	2/5/2008	2/12/2008	2/12/2008	1/5/2009	2/9/2009	2/9/2009
End Date	10/6/2007	10/14/2007	10/22/2007	10/6/2008	10/15/2008	11/10/2008	10/1/2009	10/1/2009	10/21/2009
Parameter	Arsenic, Total (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	0.001	0.001	0.001	0.002	0.004	0.004	0.001	0.001	0.001
Maximum	0.027	0.006	0.016	0.027	0.010	0.007	0.005	0.004	0.005
Median	0.003	0.004	0.002	0.007	0.005	0.005	0.003	0.003	0.003
Arithmetic Mean	0.009	0.003	0.005	0.010	0.006	0.005	0.003	0.003	0.003
Geometric Mean	0.003	0.003	0.003	0.006	0.006	0.005	0.003	0.002	0.002
Standard Deviation	0.012	0.002	0.007	0.012	0.003	0.001	0.002	0.001	0.002
Coefficient of Variation	1.468	0.595	1.377	1.101	0.421	0.283	0.609	0.516	0.750
Parameter	Biochemical Oxygen Demand 5-Day (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	1.50	1.50	1.50	6.86	3.37	4.10	6.34	6.30	0.62
Maximum	32.00	9.20	3.62	18.00	11.20	10.00	12.90	13.10	9.60
Median	12.95	5.22	1.50	10.14	6.65	5.19	10.08	7.89	4.43
Arithmetic Mean	14.85	5.29	2.03	11.29	6.97	6.12	9.85	8.79	4.77
Geometric Mean	8.89	4.40	1.87	10.46	6.25	5.76	9.50	8.39	3.29
Standard Deviation	13.60	3.16	1.06	5.14	3.59	2.64	2.90	3.20	3.69
Coefficient of Variation	0.92	0.60	0.52	0.46	0.52	0.43	0.30	0.36	0.77
Parameter	Chemical Oxygen Demand (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	11.90	17.40	5.00	22.70	0.50	0.50	21.10	18.80	22.50
Maximum	77.00	85.00	22.00	80.10	30.00	64.00	109.00	103.00	108.00
Median	42.50	36.50	13.90	42.60	17.10	25.55	52.10	57.90	36.00
Arithmetic Mean	43.48	43.85	13.70	47.00	16.18	28.90	58.58	59.40	50.63
Geometric Mean	35.50	34.79	12.07	41.35	7.35	10.92	45.53	47.96	41.11
Standard Deviation	27.49	32.59	6.95	26.71	14.54	28.74	43.68	39.97	39.80
Coefficient of Variation	0.63	0.74	0.51	0.57	0.90	1.00	0.75	0.67	0.79
Parameter	Chromium, Total (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.002
Maximum	0.012	0.010	0.010	0.011	0.010	0.009	0.009	0.007	0.021
Median	0.007	0.007	0.002	0.006	0.004	0.004	0.005	0.005	0.003
Arithmetic Mean	0.007	0.006	0.004	0.006	0.005	0.004	0.005	0.005	0.007
Geometric Mean	0.006	0.005	0.002	0.004	0.003	0.004	0.004	0.005	0.004
Standard Deviation	0.004	0.004	0.004	0.005	0.004	0.003	0.003	0.001	0.009
Coefficient of Variation	0.610	0.575	1.172	0.869	0.862	0.743	0.598	0.240	1.344
Parameter	Copper, Total (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	0.004	0.004	0.004	0.010	0.010	0.018	0.008	0.019	0.004
Maximum	0.025	0.044	0.023	0.029	0.029	0.035	0.058	0.043	0.053
Median	0.024	0.022	0.021	0.020	0.024	0.022	0.034	0.038	0.035
Arithmetic Mean	0.019	0.023	0.017	0.020	0.021	0.024	0.033	0.034	0.032
Geometric Mean	0.015	0.017	0.014	0.019	0.020	0.024	0.027	0.033	0.022
Standard Deviation	0.010	0.016	0.009	0.008	0.008	0.007	0.021	0.011	0.022
Coefficient of Variation	0.528	0.708	0.513	0.392	0.376	0.305	0.624	0.325	0.682
Parameter	E. coli (col/100 mL)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	0.5	0.5	0.5	0.5	0.5	364	0.5	70	900
Maximum	15,400	4,000	1,760	2,300,000	3,000	2,800	6,000	7,000	6,000
Median	970	23	3	1,002,500	318	1,045	1,295	330	1,250
Arithmetic Mean	4,335	1,011	442	1,076,250	909	1,314	2,148	1,933	2,350
Geometric Mean	210	25	7	10,356	93	1,027	192	445	1,670
Standard Deviation	7,422	1,992	879	1,245,895,618	1,414	1,042	2,790	3,383	2,456
Coefficient of Variation	1.71	1.97	1.99	1.16	1.56	0.79	1.30	1.75	1.05
Parameter	Field pH (su)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	6.97	7.52	7.76	8.34	7.76	7.77	7.40	6.90	7.70
Maximum	9.90	9.15	8.88	8.74	9.03	8.10	10.40	9.18	9.62
Median	8.71	7.97	8.01	8.48	7.88	7.88	8.15	7.70	7.95
Arithmetic Mean	8.57	8.15	8.16	8.51	8.14	7.91	8.53	7.87	8.31
Geometric Mean	8.49	8.13	8.15	8.51	8.12	7.91	8.44	7.83	8.27
Standard Deviation	1.33	0.70	0.50	0.17	0.60	0.14	1.40	0.97	0.89
Coefficient of Variation	0.16	0.09	0.06	0.02	0.07	0.02	0.17	0.12	0.11
Parameter	Lab pH (su)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	7.46	7.17	7.18	6.94	6.63	6.74	7.35	7.04	7.36
Maximum	7.86	7.85	7.55	7.84	7.67	7.65	8.93	7.90	8.04
Median	7.77	7.43	7.43	7.24	7.44	7.49	7.58	7.45	7.66
Arithmetic Mean	7.71	7.47	7.40	7.31	7.29	7.34	7.86	7.46	7.68
Geometric Mean	7.71	7.47	7.40	7.30	7.28	7.33	7.83	7.45	7.68
Standard Deviation	0.17	0.33	0.16	0.42	0.46	0.41	0.72	0.36	0.30
Coefficient of Variation	0.02	0.04	0.02	0.06	0.06	0.06	0.09	0.05	0.04
Parameter	Lead, Total (mg/L)								
No. of Samples	4	4	4	4	4	4	4	4	4
Minimum	0.002	0.002	0.001	0.009	0.009	0.011	0.005	0.004	0.002
Maximum	0.010	0.005	0.013	0.021	0.018	0.026	0.013	0.015	0.015
Median	0.007	0.002	0.002	0.012	0.009	0.017	0.009	0.007	0.010
Arithmetic Mean	0.007	0.003	0.004	0.013	0.011	0.017	0.009	0.009	0.009
Geometric Mean	0.005	0.003	0.002	0.013	0.011	0.017	0.008	0.008	0.007
Standard Deviation	0.004	0.002	0.006	0.005	0.004	0.007	0.004	0.005	0.005
Coefficient of Variation	0.569	0.545	1.324	0.410	0.379	0.375	0.470	0.564	0.581

Table E-1 (Cont.)
Summary Statistics of Sampled Data

Entity	Garland									Irving									Mesquite								
Watershed	Duck Creek			Spring Creek			Lower Rowlett Creek			Cottonwood Branch			Delaware Creek			Big Bear Creek			South Mesquite Creek			North Mesquite Creek			South Mesquite Creek		
Station	GA 0701	GA 0702	GA 0703	GA 0801	GA 0802	GA 0803	GA 0901	GA 0902	GA 0903	IR 0701	IR 0702	IR 0703	IR 0801	IR 0802	IR 0803	IR 0901	IR 0902	IR 0903	MS 0701	MS 0702	MS 0703	MS 0801	MS 0802	MS 0803	MS 0901	MS 0902	MS 0903
Parameter	Nitrogen, Total (mg/L)																										
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	1.000	0.750	2.990	1.000	0.025	0.050	3.600	2.200	3.60	0.025	6.990	6.200	1.000	1.180	0.025	1.500	0.900	0.025	2.740	0.500	0.430	3.000	2.200	0.025	0.025	0.025	1.500
Maximum	15.60	17.400	14.000	5.000	4.000	3.000	7.900	4.10	7.800	25.800	19.00	19.50	5.00	8.000	7.000	4.370	2.800	1.900	63.000	14.00	12.00	4.000	11.00	4.00	2.60	1.900	5.700
Median	1.180	9.000	10.350	2.100	2.075	1.200	6.350	3.050	5.300	10.650	11.350	7.950	3.015	3.950	2.560	1.900	2.300	1.350	21.450	1.265	2.400	3.285	5.000	1.600	2.400	1.450	2.400
Arithmetic Mean	4.740	9.038	9.422	2.550	2.044	1.363	6.050	3.100	5.500	11.781	12.172	10.400	3.007	4.270	3.036	2.418	2.075	1.156	27.160	4.258	4.307	3.393	5.800	1.806	1.856	1.206	3.000
Geometric Mean	2.146	3.859	8.046	2.000	0.788	0.677	5.742	3.002	5.230	2.386	11.434	9.349	2.490	3.484	1.035	2.181	1.910	0.533	15.688	1.809	2.298	3.372	4.748	0.709	0.782	0.561	2.639
Standard Deviation	7.242	9.427	5.102	1.935	1.714	1.230	2.146	0.898	1.99	12.432	5.00	6.123	1.898	2.809	2.901	1.355	0.822	0.847	26.860	6.509	5.235	0.437	4.05	1.648	1.227	0.825	1.865
Coefficient of Variation	1.53	1.04	0.54	0.76	0.84	0.90	0.36	0.29	0.36	1.06	0.41	0.59	0.63	0.66	0.96	0.56	0.40	0.73	0.99	1.53	1.22	0.13	0.70	0.91	0.66	0.68	0.62
Parameter	Oil and Grease (mg/L)																										
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	1.39	0.70	0.75	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.75	0.70	0.70	0.70
Maximum	2.37	56.30	2.50	516.00	5.00	5.00	2.60	0.70	5.40	0.70	1.80	4.50	24.30	5.00	5.00	5.70	6.60	17.50	1.67	16.30	8.60	6.70	4.60	4.80	0.70	0.70	1.90
Median	0.70	1.15	2.07	3.15	1.54	1.68	0.70	0.70	3.00	0.70	0.70	1.41	3.40	2.15	1.60	0.70	0.70	0.70	0.70	2.00	3.25	3.20	1.33	2.90	0.70	0.70	0.70
Arithmetic Mean	1.12	14.83	1.83	130.75	2.19	2.27	1.18	0.70	3.03	0.70	0.98	2.00	8.12	2.50	2.73	1.95	2.18	4.90	0.94	5.25	3.95	3.45	1.99	2.84	0.70	0.70	1.00
Geometric Mean	0.95	2.58	1.65	6.95	1.68	1.75	0.97	0.70	1.94	0.70	0.89	1.47	4.18	1.94	2.10	1.18	1.23	1.57	0.87	2.59	2.76	2.39	1.54	2.24	0.70	0.70	0.90
Standard Deviation	0.84	27.65	0.78	256.84	1.92	1.91	0.95	0.00	2.69	0.00	0.55	1.79	10.91	1.91	2.05	2.50	2.95	8.40	0.49	7.40	3.41	2.87	1.77	1.92	0.00	0.00	0.60
Coefficient of Variation	0.75	1.87	0.43	1.96	0.88	0.84	0.81	0.00	0.89	0.00	0.56	0.90	1.34	0.76	0.75	1.28	1.36	1.71	0.52	1.41	0.86	0.83	0.89	0.68	0.00	0.00	0.60
Parameter	Phosphorus, Dissolved (mg/L)																										
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.025	0.025	0.025	0.025	0.025	0.025	0.15	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.05	0.025	0.025
Maximum	0.025	0.241	0.025	0.190	0.170	0.140	0.630	0.188	0.210	0.365	0.21	0.125	0.280	0.260	0.240	0.530	0.090	0.100	0.157	0.074	2.400	0.230	0.23	0.330	0.130	0.120	0.120
Median	0.025	0.025	0.025	0.038	0.038	0.057	0.235	0.140	0.140	0.025	0.025	0.054	0.127	0.038	0.038	0.510	0.053	0.048	0.025	0.025	0.050	0.150	0.060	0.048	0.080	0.070	0.065
Arithmetic Mean	0.025	0.079	0.025	0.072	0.068	0.070	0.313	0.123	0.129	0.110	0.070	0.064	0.140	0.090	0.085	0.394	0.055	0.055	0.058	0.037	0.631	0.139	0.094	0.112	0.085	0.071	0.069
Geometric Mean	0.025	0.044	0.025	0.049	0.048	0.053	0.263	0.096	0.100	0.049	0.042	0.050	0.095	0.053	0.052	0.242	0.046	0.046	0.040	0.033	0.103	0.107	0.067	0.062	0.077	0.061	0.059
Standard Deviation	0.000	0.108	0.000	0.079	0.069	0.056	0.222	0.077	0.078	0.170	0.090	0.049	0.118	0.114	0.104	0.246	0.035	0.037	0.066	0.025	1.180	0.085	0.093	0.147	0.041	0.042	0.041
Coefficient of Variation	0.000	1.367	0.000	1.093	1.027	0.798	0.710	0.622	0.609	1.545	1.288	0.756	0.849	1.266	1.224	0.625	0.634	0.668	1.138	0.660	1.869	0.613	0.989	1.303	0.485	0.591	0.595
Parameter	Phosphorus, Total (mg/L)																										
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.025	0.025	0.025	0.025	0.025	0.025	0.28	0.2	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.380	0.025	0.070	0.064	0.025	0.025	0.025	0.090	0.025	0.050	0.025	0.025
Maximum	0.240	0.526	1.570	0.290	0.300	0.170	0.646	0.35	0.26	0.33	0.330	0.025	0.370	0.470	0.280	0.790	0.230	0.620	0.274	0.33	3.85	0.26	0.320	0.330	0.270	0.240	0.450
Median	0.088	0.025	0.163	0.060	0.085	0.110	0.335	0.26	0.205	0.025	0.047	0.025	0.251	0.275	0.090	0.610	0.110	0.200	0.07	0.136	0.08	0.165	0.145	0.130	0.230	0.150	0.150
Arithmetic Mean	0.111	0.150	0.480	0.109	0.124	0.104	0.399	0.267	0.174	0.101	0.112	0.025	0.224	0.261	0.121	0.598	0.119	0.273	0.119	0.157	1.009	0.154	0.175	0.154	0.195	0.141	0.194
Geometric Mean	0.069	0.054	0.131	0.071	0.082	0.082	0.376	0.259	0.127	0.048	0.061	0.025	0.155	0.171	0.082	0.571	0.091	0.195	0.096	0.105	0.157	0.115	0.157	0.107	0.163	0.107	0.121
Standard Deviation	0.105	0.251	0.738	0.122	0.124	0.068	0.171	0.079	0.109	0.153	0.147	0.000	0.146	0.188	0.115	0.199	0.084	0.248	0.103	0.136	1.894	0.098	0.100	0.130	0.100	0.090	0.187
Coefficient of Variation	0.951	1.667	1.538	1.124	1.004	0.655	0.428	0.295	0.627	1.506	1.306	0.000	0.652	0.720	0.948	0.333	0.710	0.911	0.865	0.867	1.878	0.635	0.574	0.844	0.512	0.636	0.966
Parameter	Total Coliforms (mg/L)																										
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	5	5	5	8,360	5,910	7,000	400	700	2,100	8,740	5	5	9,300	19,100	14,200	650,000	1,800	19,000	0.5	0.5	0.5	29,100	2,800	12,200	8,200	7,000	87,000
Maximum	285,000	460,000	222,000	34,000,000	6,400,000	1,600,000	510,000	650,000	800,000	180,000	35,300	40,000	1,100,000	54,000,000	430,000	28,000,000	1,300,000	740,000	416,000	32,000	229,000	35,400,000	21,600,000	190,000	1,900,000	410,000	520,000
Median	55,650	209,000	49,570	355,000	179,550	30,300	305,000	285,000	261,750	15,950	6,470	3,395	222,000	86,700	104,000	6,000,000	255,000	465,000	18,300	2,503	1,373	10,536,500	33,800	121,500	245,000	285,000	370,000
Arithmetic Mean	99,076	219,501	80,286	8,679,590	1,691,253	416,900	280,100	305,175	331,400	55,093	12,061	11,699	388,325	13,548,125	163,050	10,162,500	452,950	422,250	113,150	9,251	57,936	14,125,525	5,417,600	111,300	599,550	246,750	336,750
Geometric Mean	6,064	11,344	4,277	295,430	173,681	53,677	63,037	76,175	41,816	24,564	1,648	1,205	143,577	292,580	88,705	4,525,207	106,992	212,855	2,638	141	199	1,121,010	62,630	69,508	174,417	119,139	269,901
Standard Deviation	132,226	244,405	104,445	16,883,023	3,141,100	788,885	233,507	274,999	396,280	83,409	15,790	18,952	490,224	26,967,941	184,160	12,506,490	582,365	368,637	202,252	15,348	114,050	17,282,403	10,788,304	92,389	874,362	190,706	213,983
Coefficient of Variation	1.34	1.11	1.30	1.95	1.86	1.89	0.83	0.90	1.20	1.51	1.31	1.62	1.26	1.99	1.13	1.23	1.29	0.87	1.79	1.66	1.97	1.22	1.99	0.83	1.46	0.77	0.64
Parameter	Total Dissolved Solids (mg/L)																										
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	85.0	208.0	222.0	304.0	300.0	246.0	216.0	236.0	62.0	192.0	232.0	80.0	76.0	56.0	160.0	36.0	80.0	330.0	80.0	220.0	118.0	268.0	226.0	168.0	70.0	112.0	88.0
Maximum	364.0	1110.0	428.0	588.0	646.0	668.0	518.0	452.0	422.0	316.0	876.0	320.0	388.0	618.0	630.0	330.0	576.0	1250.0	304.0	436.0	20300.0	636.0	458.0	428.0	338.0	288.0	644.0
Median	332.0	300.0	331.0	430.0	450.0	443.0	460.0	384.0	417.0	279.5	446.0	262.0	250.0	163.0	233.0	153.0	467.0	506.0	245.0	333.0	445.0	316.0	233.0	261.0	120.0	240.0	282.0
Arithmetic Mean	278.3	479.5	328.0	438.0	461.5	450.0	413.5	364.0	329.5	266.8	500.0	231.0	241.0	250.0	314.0	168.0	397.5	648.0	218.5	330.5	5327.0	384.0	281.5	279.5	162.0	220.0	324.0
Geometric Mean	241.2	378.6	313.5	418.1	438.3	423.4	391.9	352.9	259.7	261.9	432.8	203.5	206.9	158.6	271.6	118.9	314.6	563.7	194.5	316.8	759.6	360.8	273.8	264.3	134.5	207.6	257.9
Standard Deviation	131.7	423.4	111.2	151.0	167.9	173.7	136.4	98.6	178.4	56.4	300.8	109.3	128.6	261.3	213.9	138.1	226.3	418.9	100.6	108.3	9985.2	170.3	113.7	109.0	121.3	75.5	234.2
Coefficient of Variation	0.47	0.88	0.34	0.35	0.36	0.39	0.33	0.27	0.54	0.21	0.60	0.47	0.53	1.05	0.68	0.82	0.57	0.65	0.46	0.33	1.87	0.44	0.40	0.39	0.75	0.34	0.72
Parameter	Total Suspended Solids (mg/L)																										
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	17.30	12.50	26.50	16.70	3.00	7.00	2.00	4.00	8.00	137.00	142.00	32.50	18.00	28.50	0.47	16.00	24.00	22.00	13.50	97.00	7.33	12.70	0.47	11.00	50.00	310.00	6.00
Maximum	162.00	1660.00	396.00	430.00	572.00	211.00	578.00	896.00	720.00	1060.00	270.00	83.20	80.67	86.00	87.00	202.00	696.00	1118.00	330.00	286.00	105.00	84.00	101.30	292.70	770.00	1566.00	724.00
Median	88.50	308.00	119.00	42.34	166.84	61.19	203.00	361.00	11.00	642.00	188.50	52.00	44.00	53.00	59.34	58.50	101.50	406.00	107.00	184.75	34.35	21.00	24.35	43.50	164.00	371.50	219.50
Arithmetic Mean	89.08	572.13	165.13	132.84	227.17	85.09	246.50	405.50	187.50	620.25	197.25	54.93	46.67	55.13	51.54	83.75	230.75	488.00	139.38	188.13	45.26	34.68	37.62	97.68	287.00	654.75	292.25
Geometric Mean	61.09	125.41	108.22	56.09	42.27	34.74	65.51	129.26	28.65	494.14	191.60	51.29	40.69	51.00	19.25	50.98	112.21	204.57	84.46	164.69	29.82	26.18	11.17	48.44	168.25	508.38	94.58
Standard Deviation	73.47	775.04	162.23	199.17	275.92	97.66	273.26	412.57	355.01	379.06	55.55	23.15	26.40	24.28	38.05	86.63	313.18	521.15	134.57	105.09	43.01	33.13	45.91	131.38	332.61	608.42	335.88
Coefficient of Variation	0.83	1.36	0.98	1.50	1.22	1.15	1.11	1.11	1.89	0.61	0.28	0.42	0.57	0.44	0.7	1.03	1.36	1.07	0.97	0.56	0.95	0.96	1.22	1.35	1.16	0.93	1.15
Parameter	Zinc (mg/L)																										
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.002	0.013	0.020	0.018	0.016	0.016	0.002	0.002	0.002	0.002	0.002	0.002	0.057	0.058	0.013	0.002	0.021	0.037	0.038	0.014	0.002	0.029	0.034	0.035	0.050	0.045	0.035
Maximum	0.114	0.129	0.054	0.074	0.108	0.048	0.070	0.052	0.043	0.008	0.060	0.026	0.082	0.132	0.058	0.141	0.085	0.330	0.091	0.068	0.059	0.069	0.060	0.070	0.201	0.104	0.086
Median	0.033	0.058	0.035	0.042	0.057	0.030	0.032	0.029	0.020	0.044	0.038	0.012	0.072	0.103	0.044	0.073	0.042	0.085	0.059	0.039	0.011	0.051	0.044	0.040	0.087	0.057	0.054
Arithmetic Mean	0.045	0.064	0.036	0.044	0.060	0.031	0.034	0.028	0.021	0.044	0.035	0.013	0.071	0.099	0.040	0.388	0.048	0.134	0.062	0.040	0.021	0.050	0.046	0.046	0.107	0.066	0.057
Geometric Mean	0.021	0.045	0.034	0.039	0.047	0.028	0.017	0.016	0.010	0.022	0.019	0.008	0.070	0.095	0.035	0.058	0.042	0.096	0.059	0.033	0.007	0.048	0.045	0.044	0.090	0.062	0.054
Standard Deviation	0.048	0.054	0.014	0.023	0.042	0.016	0.029	0.021	0.021	0.037	0.025	0.012	0.010	0.031	0.020	0.680	0.027	0.133	0.023	0.025	0.027	0.018	0.011	0.016	0.070	0.028	0.021
Coefficient of Variation	1.062	0.834	0.400	0.525	0.695	0.513	0.873	0.741	0.992	0.836	0.736	0.929	0.146	0.312	0.500	1.751	0.573	0.990	0.370	0.624	1.310	0.354	0.248	0.350	0.660	0.420	0.375

Table E-1 (Cont.)
Summary Statistics of Sampled Data

Entity	NTTA						Plano									TxDOT					
Watershed	Elm Fork		Spring Creek		Panther Creek	Cottonwood Branch	White Rock Creek			Upper Rowlett Creek			Upper Spring Creek			Muddy Creek		Middle White Rock Creek		Prairie Creek	
Station	NTTA 0701	NTTA 0702	NTTA 0801	NTTA 0802	NTTA 0901	NTTA 0902	PL 0702	PL 0703	PL 0704	PL 0801	PL 0802	PL 0803	PL 0901	PL 0902	PL 0903	TX 0701	TX 0702	TX 0801	TX 0802	TX 0901	TX 0902
Start Date	3/26/2007	1/12/2007	2/12/2008	2/5/2008	2/9/2009	1/26/2009	1/3/2007	1/12/2007	1/12/2007	1/25/2008	2/5/2008	2/5/2008	2/9/2009	2/9/2009	1/5/2009	1/3/2007	1/3/2007	2/5/2008	2/5/2008	1/5/2009	1/5/2009
End Date	10/15/2007	12/9/2007	10/6/2008	10/6/2008	10/21/2009	10/1/2009	10/15/2007	10/3/2007	10/3/2007	10/6/2008	11/10/2008	10/6/2008	10/1/2009	10/1/2009	10/1/2009	10/3/2007	10/15/2007	10/6/2008	10/6/2008	10/21/2009	10/25/2009
Parameter														Arsenic, Total (mg/L)							
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Maximum	0.010	0.006	0.011	0.030	0.025	0.001	0.010	0.003	0.002	0.010	0.005	0.010	0.012	0.008	0.005	0.015	0.015	0.005	0.005	0.005	0.006
Median	0.001	0.003	0.009	0.007	0.002	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.006	0.002	0.003	0.003	0.008	0.003	0.002	0.002	0.004
Arithmetic Mean	0.003	0.003	0.008	0.011	0.007	0.001	0.003	0.002	0.001	0.003	0.003	0.004	0.006	0.003	0.003	0.005	0.008	0.003	0.002	0.003	0.003
Geometric Mean	0.002	0.002	0.006	0.005	0.003	0.001	0.002	0.001	0.001	0.002	0.003	0.003	0.004	0.002	0.003	0.003	0.005	0.002	0.002	0.002	0.003
Standard Deviation	0.005	0.003	0.004	0.013	0.012	0.000	0.005	0.001	0.001	0.004	0.002	0.004	0.005	0.003	0.002	0.006	0.008	0.002	0.002	0.002	0.002
Coefficient of Variation	1.385	0.809	0.520	1.204	1.633	0.000	1.385	0.667	0.400	1.245	0.544	0.898	0.766	1.017	0.462	1.174	0.941	0.621	0.841	0.766	0.680
Parameter														Biochemical Oxygen Demand 5-Day (mg/L)							
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	1.50	1.50	2.80	3.90	1.80	4.46	1.50	1.50	1.50	1.00	4.30	1.00	5.41	4.54	3.13	1.50	1.50	2.40	5.79	5.51	5.36
Maximum	11.20	5.24	21.00	21.00	16.00	14.10	6.57	6.80	6.82	5.58	8.36	10.00	28.60	26.10	12.30	19.80	22.00	20.00	15.00	16.00	17.20
Median	5.37	4.23	13.95	4.99	10.19	7.37	3.99	3.60	3.46	3.25	7.52	5.58	9.06	19.00	8.24	4.64	13.15	7.62	13.05	6.15	5.43
Arithmetic Mean	5.86	3.80	12.93	8.72	9.55	8.32	4.01	3.88	3.81	3.27	6.92	5.54	13.03	17.16	7.98	7.64	12.45	9.41	11.72	8.45	8.35
Geometric Mean	3.91	3.40	10.28	6.72	7.24	7.60	3.13	3.38	3.32	2.54	6.70	4.17	10.59	14.02	6.94	4.98	8.65	7.11	11.03	7.60	7.22
Standard Deviation	5.10	1.79	7.73	8.20	6.31	4.19	2.90	2.21	2.22	2.35	1.86	3.76	10.55	10.26	4.38	8.27	8.54	7.69	4.06	5.05	5.90
Coefficient of Variation	0.87	0.47	0.60	0.94	0.66	0.50	0.72	0.57	0.58	0.72	0.27	0.68	0.81	0.60	0.55	1.08	0.69	0.82	0.35	0.60	0.71
Parameter														Chemical Oxygen Demand (mg/L)							
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.50	1.00	22.00	10.20	23.00	4.90	7.00	8.00	0.50	4.40	5.50	0.50	27.00	17.10	15.70	22.30	15.90	9.50	0.50	21.90	23.00
Maximum	79.00	25.00	77.90	73.60	62.30	46.00	62.00	42.00	89.00	65.20	113.00	56.30	59.00	46.00	43.80	53.00	900.00	73.60	85.00	61.40	90.80
Median	37.50	19.80	40.00	29.30	41.45	30.50	18.35	14.30	10.55	26.05	34.15	17.78	41.80	41.55	31.00	45.45	47.80	12.35	43.75	38.00	82.20
Arithmetic Mean	38.63	16.40	44.98	35.60	42.05	27.98	26.43	19.65	27.65	30.43	46.70	23.09	42.40	36.55	30.38	41.55	252.88	26.95	43.25	39.83	69.55
Geometric Mean	13.55	9.84	39.39	25.68	38.35	20.86	19.14	15.75	8.30	20.97	29.12	8.56	40.01	34.08	28.03	39.52	68.57	18.05	14.44	36.91	61.17
Standard Deviation	37.38	11.10	26.16	30.15	19.93	18.71	24.69	15.65	41.21	25.39	46.29	25.31	16.25	13.43	13.22	13.38	432.25	31.14	42.24	17.53	31.08
Coefficient of Variation	0.97	0.68	0.58	0.85	0.47	0.67	0.93	0.80	1.49	0.83	0.99	1.10	0.38	0.37	0.44	0.32	1.71	1.16	0.98	0.44	0.46
Parameter														Chromium, Total (mg/L)							
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.003
Maximum	0.024	0.016	0.014	0.018	0.080	0.008	0.030	0.005	0.006	0.010	0.018	0.010	0.002	0.005	0.008	0.008	0.020	0.005	0.005	0.005	0.017
Median	0.012	0.003	0.005	0.007	0.002	0.003	0.008	0.005	0.002	0.003	0.004	0.005	0.002	0.002	0.004	0.004	0.007	0.004	0.002	0.002	0.005
Arithmetic Mean	0.013	0.006	0.006	0.009	0.021	0.004	0.012	0.005	0.003	0.004	0.007	0.006	0.002	0.003	0.004	0.004	0.009	0.003	0.003	0.002	0.008
Geometric Mean	0.010	0.004	0.005	0.006	0.004	0.003	0.007	0.005	0.003	0.003	0.005	0.005	0.002	0.002	0.004	0.003	0.007	0.003	0.002	0.002	0.006
Standard Deviation	0.009	0.007	0.005	0.007	0.039	0.003	0.013	0.001	0.002	0.004	0.007	0.003	0.000	0.002	0.003	0.003	0.008	0.001	0.002	0.002	0.006
Coefficient of Variation	0.723	1.145	0.890	0.830	1.858	0.784	1.085	0.105	0.707	0.872	1.050	0.622	0.000	0.603	0.642	0.775	0.844	0.442	0.603	0.737	0.812
Parameter														Copper, Total (mg/L)							
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.021	0.016	0.032	0.028	0.027	0.004	0.004	0.010	0.008	0.010	0.023	0.010	0.004	0.004	0.004	0.004	0.004	0.005	0.025	0.004	0.005
Maximum	0.029	0.032	0.052	0.060	0.093	0.070	0.140	0.035	0.022	0.049	0.044	0.044	0.050	0.044	0.047	0.065	0.054	0.053	0.049	0.060	0.064
Median	0.026	0.021	0.034	0.044	0.055	0.036	0.023	0.019	0.017	0.020	0.032	0.022	0.043	0.026	0.033	0.029	0.026	0.026	0.037	0.053	0.044
Arithmetic Mean	0.026	0.022	0.038	0.044	0.057	0.037	0.047	0.021	0.016	0.025	0.033	0.025	0.035	0.025	0.029	0.032	0.027	0.027	0.037	0.042	0.039
Geometric Mean	0.025	0.021	0.037	0.042	0.049	0.017	0.023	0.019	0.015	0.021	0.032	0.022	0.025	0.017	0.021	0.021	0.020	0.020	0.035	0.029	0.028
Standard Deviation	0.004	0.007	0.010	0.016	0.035	0.038	0.062	0.010	0.006	0.017	0.009	0.014	0.021	0.020	0.020	0.026	0.020	0.020	0.013	0.026	0.025
Coefficient of Variation	0.149	0.315	0.253	0.354	0.606	1.029	1.320	0.505	0.385	0.689	0.262	0.582	0.614	0.816	0.667	0.808	0.742	0.729	0.355	0.611	0.642
Parameter														E. coli (col/100 mL)							
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	5	5	3,820	1,640	300	100	100	5	5	180	0.5	0.5	140	50	0.5	5	5	0.5	0.5	0.5	0.5
Maximum	54,300	1,190	200,000	130,000	9,000	6,200	15,000	16,000	31,000	360,000	7,100	6,000	4,000	4,000	11,000	8,000	20,000	46,400	9,010	12,000	8,000
Median	4,171	365	49,000	28,650	2,850	2,600	10,000	4,150	800	15,680	428	1,850	1,000	2,450	1,800	3,820	7,050	3,100	5,400	4,700	3,400
Arithmetic Mean	15,662	481	75,455	47,235	3,750	2,875	8,775	6,076	8,151	97,885	1,989	2,425	1,535	2,238	3,650	3,911	8,526	13,150	4,953	5,350	3,700
Geometric Mean	397	162	32,386	20,442	2,126	887	3,464	662	561	7,171	159	160	774	1,005	365	561	612	611	592	509	372
Standard Deviation	26,056	514	89,377	56,637	3,751	3,185	6,455	7,581	15,237	175,286	3,413	2,928	1,762	1,806	4,973	4,329	10,087	22,269	3,886	5,641	3,911
Coefficient of Variation	1.66	1.07	1.19	1.20	1.00	1.11	0.74	1.25	1.87	1.79	1.72	1.21	1.15	0.81	1.36	1.11	1.18	1.69	0.79	1.05	1.06
Parameter														Field pH (su)							
No. of Samples	4	4	4	4	3	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4
Minimum	7.74	7.80	8.66	8.34	6.50	6.90	6.34	6.35	6.38	7.65	8.04	8.69	7.00	7.00	7.00	6.06	6.67	7.18	7.18	7.60	7.60
Maximum	8.37	8.13	10.21	9.61	8.21	9.08	8.68	8.27	8.29	9.43	8.84	9.22	7.84	8.12	8.19	8.54	8.80	8.85	8.73	9.35	8.45
Median	8.04	8.05	9.08	9.34	6.96	7.07	7.98	7.98	8.07	8.55	8.12	9.03	7.16	7.44	7.22	8.10	8.24	7.71	7.57	7.90	7.75
Arithmetic Mean	8.05	8.01	9.26	9.16	7.22	7.53	7.75	7.64	7.70	8.55	8.28	8.99	7.29	7.50	7.47	7.70	7.99	7.86	7.76	8.19	7.89
Geometric Mean	8.04	8.01	9.24	9.14	7.19	7.48	7.69	7.60	7.66	8.52	8.27	8.99	7.28	7.48	7.45	7.63	7.94	7.83	7.73	8.16	7.88
Standard Deviation	0.26	0.15	0.68	0.56	0.89	1.04	1.00	0.87	0.89	0.78	0.38	0.26	0.39	0.59	0.63	1.11	0.92	0.83	0.74	0.79	0.40
Coefficient of Variation	0.03	0.02	0.07	0.06	0.12	0.14	0.13	0.11	0.12	0.09	0.05	0.03	0.05	0.08	0.09	0.15	0.12	0.11	0.10	0.10	0.05
Parameter														Lab pH (su)							
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	7.16	7.29	6.99	7.51	7.44	7.49	7.62	7.25	7.39	7.10	6.96	6.72	7.15	7.23	7.56	7.27	7.53	7.12	6.75	7.22	7.17
Maximum	7.80	8.07	8.56	7.89	8.13	7.76	8.89	7.76	7.90	7.80	7.69	7.77	7.65	8.08	8.34	7.81	7.83	7.82	8.01	7.98	7.75
Median	7.43	7.52	7.61	7.73	7.96	7.64	7.79	7.65	7.47	7.62	7.49	7.67	7.29	7.48	7.62	7.50	7.65	7.60	7.53	7.57	7.42
Arithmetic Mean	7.45	7.60	7.69	7.71	7.87	7.63	8.02	7.58	7.56	7.53	7.41	7.46	7.34	7.57	7.78	7.52	7.66	7.54	7.46	7.58	7.44
Geometric Mean	7.45	7.60	7.67	7.71	7.87	7.63	8.01	7.58	7.55	7.53	7.40	7.44	7.34	7.56	7.78	7.52	7.66	7.53	7.44	7.58	7.44
Standard Deviation	0.28	0.33	0.65	0.17	0.31	0.12	0.58	0.23	0.24	0.31	0.32	0.45	0.23	0.39	0.37	0.23	0.15	0.30	0.53	0.31	0.24
Coefficient of Variation	0.04	0.04	0.09	0.02	0.04	0.02	0.07	0.03	0.03	0.04	0.04	0.07	0.03	0.05	0.05	0.03	0.02	0.04	0.07	0.04	0.03
Parameter														Lead, Total (mg/L)							
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.002	0.002	0.005	0.010	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.005	0.002	0.005
Maximum	0.228	0.012	0.078	0.021	0.039	0.038	0.022	0.005	0.008	0.022	0.035	0.048	0.009	0.015	0.006	0.031	0.043	0.023	0.014	0.005	0.025
Median	0.002	0.007	0.020	0.013	0.006	0.007	0.004	0.002	0.003	0.009	0.009	0.010	0.003	0.006	0.005	0.005	0.010	0.009	0.008	0.005	0.015
Arithmetic Mean	0.059	0.007	0.030	0.014	0.013	0.014	0.008	0.003	0.004	0.011	0.015	0.018	0.004	0.007	0.004	0.011	0.017	0.012	0.009	0.004	0.015
Geometric Mean	0.007	0.006	0.019	0.013	0.007	0.007	0.005	0.003	0.003	0.008	0.011	0.010	0.003	0.006	0.004	0.006	0.008	0.009	0.008	0.004	0.012
Standard Deviation	0.113	0.004	0.033	0.005	0.017	0.017	0.010	0.002	0.003	0.008	0.014	0.021	0.003	0.006	0.002	0.014	0.019	0.009	0.004	0.001	0.010
Coefficient of Variation	1.932	0.628	1.081	0.345	1.309	1.259	1.239	0.545	0.707	0.799	0.930	1.182	0.777	0.791	0.385	1.283	1.176	0.733	0.470	0.354	0.664

Table E-1 (Cont.)
Summary Statistics of Sampled Data

Entity	NTTA						Plano									TxDOT					
Watershed	Elm Fork		Spring Creek		Panther Creek	Cottonwood Branch	White Rock Creek			Upper Rowlett Creek			Upper Spring Creek			Muddy Creek		Middle White Rock Creek		Prairie Creek	
Station	NTTA 0701	NTTA 0702	NTTA 0801	NTTA 0802	NTTA 0901	NTTA 0902	PL 0702	PL 0703	PL 0704	PL 0801	PL 0802	PL 0803	PL 0901	PL 0902	PL 0903	TX 0701	TX 0702	TX 0801	TX 0802	TX 0901	TX 0902
Parameter	Nitrogen, Total (mg/L)																				
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.025	0.025	0.025	0.025	1.300	2.200	1.000	1.000	0.025	1.000	0.025	0.025	0.300	1.900	0.025	0.500	0.025	0.250	1.000	0.025	0.025
Maximum	14.000	1.400	6.000	5.000	2.60	4.80	4.560	3.00	2.48	7.00	8.000	6.000	3.000	2.400	3.300	4.000	21.50	6.00	10.000	1.800	2.200
Median	8.625	1.135	2.620	2.610	1.900	3.450	2.400	1.915	1.450	1.965	0.675	2.070	1.250	2.200	2.300	1.610	2.215	3.465	3.600	1.350	0.313
Arithmetic Mean	7.819	0.924	2.816	2.561	1.925	3.475	2.590	1.957	1.351	2.982	2.344	2.541	1.450	2.175	1.981	1.930	6.489	3.295	4.550	1.131	0.713
Geometric Mean	2.031	0.459	0.988	0.942	1.857	3.334	2.248	1.821	0.586	2.231	0.484	0.853	1.032	2.163	0.793	1.452	1.271	2.048	3.239	0.526	0.169
Standard Deviation	7.112	0.622	2.519	2.113	0.585	1.124	1.506	0.82	1.074	2.756	3.799	2.598	1.212	0.263	1.500	1.558	10.062	2.396	4.001	0.819	1.028
Coefficient of Variation	0.91	0.67	0.90	0.83	0.30	0.32	0.58	0.42	0.79	0.92	1.62	1.02	0.84	0.12	0.76	0.81	1.55	0.73	0.88	0.72	1.44
Parameter	Oil and Grease (mg/L)																				
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.70	0.70	0.70	1.30	0.70	0.70	0.70	0.70	0.70	0.70	0.75	1.28	0.70	0.70	0.70	0.70	0.70	1.39	0.70	0.70	0.70
Maximum	0.70	3.40	12.80	316.00	32.10	0.70	11.40	1.70	4.30	5.00	9.20	623.00	5.00	26.60	0.70	8.74	6.32	266.00	13.90	0.70	0.70
Median	0.70	1.10	3.20	3.25	0.70	0.70	3.45	0.70	0.70	1.60	3.65	4.75	0.70	3.80	0.70	2.85	2.24	3.75	3.20	0.70	0.70
Arithmetic Mean	0.70	1.58	4.97	80.95	8.55	0.70	4.75	0.95	1.60	2.22	4.31	158.44	1.78	8.73	0.70	3.79	2.87	68.72	5.25	0.70	0.70
Geometric Mean	0.70	1.26	2.81	7.45	1.82	0.70	2.43	0.87	1.10	1.72	2.74	11.56	1.14	3.73	0.70	2.15	1.85	8.25	2.87	0.70	0.70
Standard Deviation	0.00	1.27	5.55	156.71	15.70	0.00	5.14	0.50	1.80	1.91	3.99	309.71	2.15	12.12	0.00	3.88	2.72	131.53	6.07	0.00	0.00
Coefficient of Variation	0.00	0.81	1.12	1.94	1.84	0.00	1.08	0..526	1.13	0.86	0.93	1.96	1.21	1.39	0.00	1.02	0.95	1.91	1.16	0.00	0.00
Parameter	Phosphorus, Dissolved (mg/L)																				
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.05	0.05
Maximum	0.253	0.160	0.320	0.140	0.120	0.420	0.138	0.025	0.025	0.340	0.400	0.130	0.180	0.080	0.080	0.096	0.065	0.150	0.180	0.110	0.130
Median	0.025	0.048	0.038	0.085	0.042	0.210	0.025	0.025	0.025	0.038	0.080	0.038	0.048	0.048	0.050	0.025	0.025	0.050	0.050	0.070	0.080
Arithmetic Mean	0.082	0.070	0.105	0.084	0.057	0.216	0.053	0.025	0.025	0.110	0.146	0.057	0.075	0.050	0.051	0.043	0.035	0.069	0.076	0.075	0.085
Geometric Mean	0.045	0.051	0.056	0.068	0.046	0.135	0.038	0.025	0.025	0.057	0.086	0.045	0.053	0.043	0.047	0.035	0.032	0.055	0.058	0.072	0.079
Standard Deviation	0.114	0.064	0.144	0.055	0.045	0.185	0.057	0.000	0.000	0.154	0.173	0.050	0.073	0.029	0.023	0.035	0.020	0.055	0.070	0.026	0.037
Coefficient of Variation	1.390	0.909	1.370	0.656	0.779	0.854	1.061	0.000	0.000	1.398	1.182	0.865	0.975	0.583	0.439	0.827	0.568	0.806	0.920	0.353	0.435
Parameter	Phosphorus, Total (mg/L)																				
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	4	4	4	4	4
Minimum	0.025	0.230	0.025	0.025	0.025	0.11	0.025	0.025	0.025	0.025	0.110	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.05	0.05
Maximum	0.786	0.643	0.650	0.33	1.48	0.29	1.54	0.220	0.230	0.350	0.625	0.170	0.280	0.290	0.250	0.26	0.39	0.18	0.3	0.16	0.55
Median	0.593	0.422	0.215	0.1	0.12	0.225	0.243	0.041	0.075	0.050	0.295	0.060	0.115	0.135	0.130	0.191	0.061	0.095	0.1	0.125	0.295
Arithmetic Mean	0.499	0.430	0.276	0.139	0.436	0.213	0.513	0.082	0.101	0.119	0.331	0.079	0.134	0.146	0.134	0.167	0.134	0.099	0.131	0.115	0.297
Geometric Mean	0.288	0.403	0.133	0.089	0.151	0.2	0.175	0.053	0.075	0.068	0.262	0.062	0.096	0.107	0.090	0.123	0.07	0.075	0.087	0.105	0.219
Standard Deviation	0.329	0.171	0.297	0.138	0.697	0.075	0.709	0.093	0.090	0.155	0.241	0.064	0.110	0.109	0.113	0.105	0.174	0.073	0.125	0.048	0.209
Coefficient of Variation	0.659	0.397	1.075	0.9998	1.599	0.353	1.383	1.142	0.884	1.302	0.728	0.807	0.823	0.746	0.843	0.628	1.292	0.742	0.951	0.417	0.703
Parameter	Total Coliforms (mg/L)																				
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	5	5	18,900	1,000	4,400	4,800	6,500	5	5	6,360	7,000	500	9,000	1,600	1,200	5,500	112	2,100	9,000	2,100	100
Maximum	150,000	23,000	1,900,000	63,000,000	630,000	4,300,000	186,000	400,000	98,700	3,600,000	64,500	5,200,000	75,000,000	4,100,000	900,000	396,000	526,000	3,400,000	670,000	800,000	710,000
Median	36,491	11,950	535,000	12,205,000	50,300	101,000	70,650	59,000	50,350	195,000	9,500	30,100	400,000	487,000	410,000	110,000	48,000	608,000	188,500	350,000	88,000
Arithmetic Mean	55,747	11,726	747,225	21,852,750	183,750	1,126,700	83,450	129,501	49,851	999,090	22,625	1,315,175	18,952,250	1,268,900	430,300	155,375	155,528	1,154,525	264,000	375,525	221,525
Geometric Mean	2,699	1,816	281,152	1,195,561	40,326	119,379	48,469	4,641	5,947	157,682	14,048	38,447	444,050	156,086	115,643,445	46,245	16,126	140,010	102,408	103,987	26,513
Standard Deviation	71,307	10,973	851,249	29,381,499	300,042	2,116,076	76,634	188,306	40,297	1,738,334	27,989	2,589,929	37,366,535	1,926,767	369,941	186,620	249,560	1,591,572	303,230	377,151	329,071
Coefficient of Variation	1.28	0.94	1.14	1.35	1.63	1.88	0.92	1.45	0.81	1.74	1.24	1.97	1.97	1.52	0.86	1.20	1.61	1.38	1.15	1.00	1.49
Parameter	Total Dissolved Solids (mg/L)																				
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	216.0	155.0	72.0	48.0	624.0	96.0	196.0	110.0	364.0	48.0	324.0	118.0	32.0	196.0	162.0	45.0	228.0	195.0	140.0	180.0	102.0
Maximum	412.0	354.0	706.0	476.0	746.0	256.0	664.0	702.0	922.0	464.0	520.0	340.0	376.0	330.0	536.0	270.0	495.0	302.0	414.0	540.0	504.0
Median	351.0	240.0	217.0	112.0	693.0	203.0	398.5	239.0	392.0	321.0	368.0	310.0	145.0	267.0	289.0	177.0	315.0	264.0	212.0	231.0	301.0
Arithmetic Mean	332.5	247.3	303.0	187.0	689.0	189.5	414.3	322.5	517.5	288.5	395.0	269.5	174.5	265.0	319.0	167.3	338.3	256.3	244.5	295.5	302.0
Geometric Mean	323.5	233.3	219.6	128.0	687.6	176.9	371.9	253.1	476.5	218.6	387.5	249.0	125.3	259.0	290.0	128.8	325.1	252.4	225.9	265.3	261.2
Standard Deviation	83.3	95.2	278.9	196.4	50.3	73.6	211.4	265.2	270.1	174.8	91.9	103.0	145.7	64.2	160.8	119.7	112.9	50.1	118.0	169.6	164.2
Coefficient of Variation	0.25	0.39	0.92	1.05	0.07	0.39	0.51	0.82	0.52	0.61	0.23	0.38	0.84	0.24	0.50	0.72	0.33	0.20	0.48	0.57	0.54
Parameter	Total Suspended Solids (mg/L)																				
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	2.50	52.00	4.67	0.47	41.00	36.00	13.00	4.67	6.00	1.33	18.00	5.33	26.00	46.00	8.00	12.50	47.50	23.00	25.67	8.00	31.00
Maximum	734.00	256.00	366.00	119.30	284.00	104.00	437.00	136.00	162.00	1874.00	2340.00	386.00	170.00	276.00	242.00	634.00	145.00	295.00	119.30	336.00	448.00
Median	392.50	119.35	152.67	64.35	117.00	77.50	164.25	79.50	53.75	41.17	314.52	83.50	83.00	180.00	130.50	108.35	98.25	68.50	27.35	48.00	248.00
Arithmetic Mean	380.38	136.68	169.00	62.12	139.75	73.75	194.63	74.92	68.88	489.42	746.76	139.58	90.50	170.50	127.75	215.80	97.25	113.75	49.92	110.00	243.75
Geometric Mean	118.30	111.66	74.70	21.56	102.46	68.70	102.53	42.49	31.20	30.29	160.79	43.35	72.24	140.03	60.08	93.53	88.71	73.19	38.88	49.69	170.78
Standard Deviation	347.73	95.11	159.71	50.67	115.54	28.76	190.29	60.80	75.08	923.74	1096.86	178.46	63.38	101.72	126.51	284.89	45.03	123.97	46.28	151.92	170.81
Coefficient of Variation	0.91	0.70	0.95	0.82	0.83	0.39	0.98	0.81	1.09	1.89	1.47	1.28	0.70	0.60	0.99	1.32	0.46	1.09	0.93	1.38	0.70
Parameter	Zinc (mg/L)																				
No. of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	0.026	0.018	0.089	0.049	0.016	0.002	0.030	0.026	0.025	0.017	0.036	0.024	0.005	0.017	0.024	0.018	0.021	0.039	0.050	0.019	0.056
Maximum	0.198	0.078	0.119	0.105	0.220	0.748	0.141	0.048	0.038	0.046	0.138	0.054	0.073	0.126	0.099	0.068	0.128	0.081	0.114	0.286	0.145
Median	0.058	0.033	0.104	0.086	0.049	0.069	0.044	0.037	0.032	0.022	0.082	0.035	0.031	0.058	0.037	0.035	0.051	0.049	0.063	0.037	0.080
Arithmetic Mean	0.085	0.040	0.104	0.082	0.083	0.222	0.065	0.037	0.032	0.027	0.085	0.037	0.035	0.065	0.049	0.039	0.063	0.055	0.073	0.094	0.090
Geometric Mean	0.065	0.034	0.103	0.078	0.053	0.048	0.053	0.036	0.031	0.025	0.076	0.035	0.019	0.051	0.042	0.034	0.051	0.052	0.069	0.051	0.084
Standard Deviation	0.077	0.027	0.014	0.026	0.093	0.352	0.051	0.009	0.007	0.013	0.042	0.013	0.034	0.046	0.034	0.024	0.047	0.019	0.028	0.128	0.040
Coefficient of Variation	0.900	0.678	0.133	0.322	1.112	1.590	0.791	0.250	0.226	0.489	0.495	0.355	0.980	0.719	0.691	0.602	0.748	0.344	0.391	1.357	0.439

Table E-2

Summary Statistics of Sampled Data by Entity and Watershed

Entity	Arlington			Dallas			Fort Worth			Garland			Irving		
Watershed	**Rush Creek**	**Johnson Creek**	**Mountain Creek**	**Dallas East Bank**	**Dallas West Bank**	**Southeast Dallas**	**Big Fossil Creek**	**Lower Sycamore Creek**	**Marine Creek**	**Duck Creek**	**Spring Creek**	**Lower Rowlett Creek**	**Cottonwood Branch**	**Delaware Creek**	**Big Bear Creek**
Parameter	**Arsenic, Total (mg/L)**														
No. of Samples	12	12	12	19	12	15	5	3	3	12	12	12	12	12	12
Minimum	< 0.002	< 0.002	< 0.002	< 0.010	< 0.004	0.002	0.011	< 0.002	0.001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Maximum	0.012	0.010	0.010	0.005	0.006	0.006	0.025	0.003	0.001	0.050	0.010	0.006	0.015	0.010	0.060
Median	0.004	0.002	0.003	0.005	0.002	0.002	0.013	0.003	0.001	0.004	0.001	0.004	0.002	0.004	0.001
Arithmetic Mean	0.004	0.003	0.004	0.005	0.002	0.003	0.015	0.002	0.001	0.010	0.003	0.003	0.003	0.004	0.007
Geometric Mean	0.003	0.002	0.003	0.005	0.002	0.002	0.014	0.002	0.001	0.004	0.002	0.003	0.002	0.003	0.002
Standard Deviation	0.004	0.003	0.003	0.005	0.001	0.002	0.006	0.001	0.000	0.015	0.004	0.002	0.004	0.003	0.017
Coefficient of Variation	0.893	0.899	0.766	0.005	0.693	0.598	0.394	0.433	0.000	1.458	1.062	0.617	1.159	0.666	2.335
Parameter	**Biochemical Oxygen Demand 5-Day (mg/L)**														
No. of Samples	12	12	12	19	12	15	5	3	3	12	12	12	12	12	12
Minimum	< 3.00	2.40	4.82	< 2.00	0.75	2.10	< 2.00	< 0.45	5.40	< 3.00	< 2.00	< 0.407	< 3.00	< 2.00	2.39
Maximum	30.00	25.00	40.30	31.60	15.70	92.40	5.00	1.00	7.90	23.00	13.00	12.30	135.00	39.70	280.00
Median	7.71	9.11	14.35	6.19	8.89	11.80	1.00	0.23	6.20	9.31	3.20	3.30	4.96	22.15	6.64
Arithmetic Mean	10.59	10.44	15.84	9.35	8.11	25.04	2.00	0.48	6.50	9.77	4.28	4.70	16.75	21.42	30.58
Geometric Mean	6.68	8.47	13.65	6.23	6.61	12.93	1.59	0.37	6.42	7.37	2.90	3.29	5.55	16.63	8.63
Standard Deviation	10.00	7.26	9.43	9.09	4.09	30.23	1.73	0.45	1.28	6.62	3.78	3.55	37.61	10.64	78.80
Coefficient of Variation	0.94	0.70	0.60	0.97	0.51	1.21	0.87	0.93	0.20	0.68	0.88	0.76	2.25	0.50	2.58
Parameter	**Chemical Oxygen Demand (mg/L)**														
No. of Samples	12	12	12	19	12	15	5	3	3	12	12	12	12	12	12
Minimum	< 1.00	< 1.00	34.00	< 20.00	< 5.00	5.31	11.00	13.00	< 4.20	1.00	< 10.00	2.15	< 10.00	22.70	20.30
Maximum	310.00	67.10	112.00	244.00	44.90	301.00	213.00	18.50	48.30	268.00	68.90	87.00	130.00	97.40	410.00
Median	36.55	20.95	72.35	41.10	14.30	64.40	63.00	15.80	46.30	31.00	11.25	28.85	33.05	56.10	39.60
Arithmetic Mean	59.26	28.63	69.34	57.46	16.98	93.77	105.60	15.77	32.23	50.45	22.05	33.44	48.24	61.47	74.02
Geometric Mean	27.76	18.42	64.91	38.30	9.60	55.25	62.93	15.61	16.75	27.02	14.91	24.22	33.39	55.18	46.29
Standard Deviation	82.96	21.48	25.27	57.29	15.38	97.29	97.99	2.75	26.12	70.76	21.01	23.18	43.13	27.78	108.44
Coefficient of Variation	1.40	0.75	0.36	1.00	0.91	1.04	0.93	0.17	0.81	1.40	0.95	0.69	0.89	0.45	1.47
Parameter	**Chromium, Total (mg/L)**														
No. of Samples	12	12	12	19	12	15	5	3	3	12	12	12	12	12	12
Minimum	0.003	< 0.004	< 0.004	< 0.006	< 0.001	0.002	< 0.006	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Maximum	0.026	0.010	0.011	0.057	0.010	0.030	0.013	0.001	0.001	0.012	0.010	0.005	0.041	0.010	0.010
Median	0.007	0.002	0.005	0.003	0.001	0.006	0.003	0.001	0.001	0.005	0.004	0.002	0.006	0.002	0.003
Arithmetic Mean	0.010	0.003	0.004	0.010	0.003	0.009	0.005	0.001	0.001	0.006	0.004	0.003	0.009	0.004	0.004
Geometric Mean	0.008	0.002	0.003	0.006	0.002	0.006	0.003	0.001	0.001	0.005	0.003	0.003	0.005	0.003	0.003
Standard Deviation	0.008	0.003	0.003	0.013	0.003	0.008	0.004	0.000	0.000	0.004	0.003	0.002	0.011	0.003	0.003
Coefficient of Variation	0.765	0.871	0.698	1.365	1.127	0.874	0.994	0.000	0.000	0.646	0.777	0.541	1.221	0.795	0.742
Parameter	**Copper, Total (mg/L)**														
No. of Samples	12	12	12	19	12	15	5	3	3	12	12	12	12	12	12
Minimum	< 0.008	< 0.010	< 0.008	< 0.010	< 0.004	0.004	< 0.006	< 0.006	< 0.006	< 0.008	0.016	< 0.008	< 0.008	< 0.010	< 0.008
Maximum	0.044	0.066	0.122	0.077	0.016	0.045	0.005	0.010	0.012	0.033	0.049	0.054	0.038	0.047	0.617
Median	0.023	0.022	0.043	0.012	0.002	0.012	0.003	0.009	0.009	0.021	0.028	0.016	0.015	0.033	0.044
Arithmetic Mean	0.023	0.027	0.045	0.019	0.004	0.015	0.004	0.007	0.008	0.021	0.030	0.021	0.015	0.031	0.092
Geometric Mean	0.020	0.022	0.028	0.012	0.003	0.012	0.004	0.006	0.007	0.019	0.027	0.014	0.011	0.027	0.043
Standard Deviation	0.011	0.018	0.033	0.020	0.004	0.012	0.001	0.004	0.004	0.007	0.012	0.018	0.011	0.013	0.168
Coefficient of Variation	0.463	0.651	0.749	1.075	1.159	0.750	0.304	0.523	0.564	0.352	0.413	0.851	0.756	0.407	1.827
Parameter	**E. coli (col/100 mL)**														
No. of Samples	12	12	12	16	11	15	5	3	3	12	12	12	12	12	12
Minimum	< 10	< 1	60	< 1	30	565	46	38	579	< 10	< 1	< 1	26	< 1	< 1
Maximum	31,300	100,000	500,000	48,000	64,880	241,960	15,531	93	12,033	144,000	700,000	4,800	10,000	300,000	240,000
Median	650	1,700	6,500	674	792	24,196	517	75	1,986	1,185	682	110	950	6,480	2,050
Arithmetic Mean	5,479	16,473	75,389	5,052	11,246	67,647	3,708	69	4,866	19,538	70,506	1,113	2,313	33,336	21,872
Geometric Mean	434	852	5,830	442	1,414	16,444	805	64	2,401	557	1,426	223	607	3,421	1,184
Standard Deviation	10,070	31,588	158,384	12,396	20,914	94,045	6,650	28	6,247	44,787	199,354	1,582	3,420	84,703	68,714
Coefficient of Variation	1.84	1.92	2.10	2.45	1.86	1.39	1.79	0.41	1.28	2.29	2.83	1.42	1.48	2.54	3.14
Parameter	**Field pH (su)**														
No. of Samples	6	12	11	10	12	15	5	*	3	12	12	12	6	13	11
Minimum	6.82	6.80	7.73	7.60	7.42	7.03	7.70	*	6.98	6.99	7.35	7.60	6.87	7.42	7.70
Maximum	7.54	8.34	8.70	7.80	8.23	8.19	8.10	*	7.76	8.15	9.95	9.41	7.57	8.38	8.18
Median	7.40	7.82	8.16	7.75	7.75	7.53	7.80	*	7.74	7.66	8.50	8.73	7.18	7.84	7.99
Arithmetic Mean	7.32	7.72	8.15	7.72	7.78	7.58	7.90	*	7.49	7.66	8.53	8.53	7.19	7.86	7.99
Geometric Mean	7.32	7.71	8.15	7.72	7.78	7.58	7.89	*	7.48	7.65	8.50	8.50	7.19	7.86	7.99
Standard Deviation	0.26	0.39	0.34	0.09	0.24	0.30	0.19	*	0.45	0.34	0.75	0.71	0.25	0.27	0.15
Coefficient of Variation	0.04	0.05	0.04	0.01	0.03	0.04	0.02	*	0.06	0.04	0.09	0.08	0.04	0.03	0.02
Parameter	**Lab pH (su)**														
No. of Samples	12	12	12	9	*	*	*	3	*	12	12	12	12	13	12
Minimum	7.11	6.74	6.88	7.25	*	*	*	7.38	*	7.22	6.85	7.53	7.02	6.82	6.50
Maximum	8.46	8.07	8.23	7.93	*	*	*	7.92	*	7.93	8.08	7.99	8.12	8.01	8.15
Median	7.51	7.56	7.36	7.78	*	*	*	7.83	*	7.46	7.60	7.71	7.64	7.21	7.63
Arithmetic Mean	7.50	7.53	7.38	7.71	*	*	*	7.71	*	7.50	7.52	7.73	7.56	7.34	7.45
Geometric Mean	7.49	7.51	7.37	7.71	*	*	*	7.71	*	7.50	7.51	7.73	7.55	7.33	7.44
Standard Deviation	0.36	0.42	0.37	0.25	*	*	*	0.29	*	0.19	0.43	0.15	0.34	0.39	0.50
Coefficient of Variation	0.05	0.06	0.05	0.03	*	*	*	0.04	*	0.03	0.06	0.02	0.05	0.05	0.07
Parameter	**Lead, Total (mg/L)**														
No. of Samples	12	12	12	19	12	15	5	3	3	12	12	12	12	12	12
Minimum	< 0.004	< 0.004	< 0.004	< 0.012	0.001	0.002	< 0.026	< 0.002	0.003	< 0.002	< 0.004	< 0.004	< 0.002	0.005	< 0.004
Maximum	0.009	0.016	0.020	0.116	0.014	0.059	0.025	0.002	0.009	0.020	0.062	0.011	0.009	0.033	0.351
Median	0.002	0.007	0.013	0.006	0.002	0.013	0.013	0.002	0.008	0.002	0.010	0.005	0.002	0.010	0.010
Arithmetic Mean	0.003	0.008	0.011	0.023	0.004	0.017	0.018	0.002	0.007	0.006	0.015	0.005	0.002	0.012	0.037
Geometric Mean	0.003	0.006	0.008	0.014	0.003	0.012	0.016	0.002	0.006	0.004	0.009	0.004	0.002	0.011	0.009
Standard Deviation	0.002	0.006	0.007	0.028	0.004	0.016	0.007	0.001	0.003	0.006	0.017	0.003	0.002	0.007	0.099
Coefficient of Variation	0.723	0.678	0.647	1.202	1.077	0.928	0.391	0.371	0.484	1.057	1.149	0.660	0.856	0.596	2.689

Table E-2 (Cont.)
Summary Statistics of Sampled Data by Entity and Watershed

Entity	Arlington			Dallas			Fort Worth			Garland			Irving		
Watershed	**Rush Creek**	**Johnson Creek**	**Mountain Creek**	**Dallas East Bank**	**Dallas West Bank**	**Southeast Dallas**	**Big Fossil Creek**	**Lower Sycamore Creek**	**Marine Creek**	**Duck Creek**	**Spring Creek**	**Lower Rowlett Creek**	**Cottonwood Branch**	**Delaware Creek**	**Big Bear Creek**
Parameter	**Nitrogen, Total (mg/L)**														
No. of Samples	12	12	12	19	12	12	5	3	3	12	12	12	12	12	12
Minimum	< 0.050	< 0.050	< 0.050	0.458	< 0.450	1.340	< 0.230	0.460	1.100	0.750	< 0.050	2.200	< 0.050	< 0.050	< 0.050
Maximum	91.00	5.000	5.200	7.430	1.730	40.60	1.010	0.750	2.000	17.40	5.000	7.900	25.80	8.000	4.370
Median	9.750	1.150	1.700	1.680	1.095	2.730	0.329	0.620	1.800	5.345	1.400	4.100	9.500	3.260	1.800
Arithmetic Mean	18.47	1.597	1.781	2.131	0.948	5.958	0.442	0.610	1.633	7.733	1.985	4.883	11.45	3.438	1.883
Geometric Mean	5.212	0.569	0.664	1.639	0.804	3.261	0.309	0.598	1.582	4.054	1.022	4.484	6.342	2.078	1.305
Standard Deviation	26.01	1.560	1.646	1.752	0.457	10.968	0.384	0.145	0.473	7.110	1.579	2.084	7.735	2.410	1.091
Coefficient of Variation	1.41	0.98	0.92	0.82	0.48	1.84	0.87	0.24	0.29	0.92	0.80	0.43	0.68	0.70	0.58
Parameter	**Oil and Grease (mg/L)**														
No. of Samples	12	12	12	19	12	15	5	3	3	12	12	12	12	13	12
Minimum	< 1.40	< 1.40	< 1.40	< 5.00	< 1.06	0.55	< 5.20	< 0.85	1.00	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Maximum	11.6	263	9.60	2.50	2.63	4.90	36.2	3.80	1.60	56.3	516	5.40	4.50	24.3	17.5
Median	0.70	1.78	2.60	2.50	0.53	0.55	2.70	0.43	1.30	1.15	1.55	0.70	0.70	1.80	0.70
Arithmetic Mean	2.58	24.0	3.23	2.50	0.82	1.50	12.4	1.55	1.30	5.93	45.1	1.63	1.23	4.32	3.01
Geometric Mean	1.40	2.76	2.19	2.50	0.67	0.98	6.54	0.88	1.28	1.59	2.73	1.10	0.97	2.53	1.31
Standard Deviation	3.40	75.3	2.80	0.00	0.69	1.58	14.8	1.95	0.30	15.9	148	1.82	1.14	6.25	5.03
Coefficient of Variation	1.32	3.14	0.87	0.00	0.84	1.06	1.20	1.26	0.23	2.68	3.29	1.11	0.93	1.45	1.67
Parameter	**Phosphorus, Dissolved (mg/L)**														
No. of Samples	12	12	12	18	12	15	5	3	3	12	12	12	12	12	12
Minimum	< 0.050	< 0.050	< 0.050	< 0.010	< 0.006	0.072	0.060	0.017	0.041	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Maximum	0.025	0.110	0.140	0.316	0.297	0.699	0.290	0.031	0.110	0.241	0.190	0.630	0.365	0.280	0.530
Median	0.025	0.050	0.050	0.095	0.032	0.179	0.140	0.017	0.095	0.025	0.038	0.165	0.025	0.050	0.075
Arithmetic Mean	0.025	0.060	0.057	0.090	0.083	0.235	0.156	0.022	0.082	0.043	0.070	0.188	0.082	0.105	0.168
Geometric Mean	0.025	0.052	0.048	0.058	0.025	0.191	0.136	0.021	0.075	0.030	0.050	0.136	0.047	0.064	0.080
Standard Deviation	0.000	0.031	0.037	0.076	0.099	0.169	0.089	0.008	0.036	0.062	0.062	0.159	0.106	0.105	0.212
Coefficient of Variation	0.000	0.528	0.643	0.843	1.195	0.717	0.571	0.373	0.443	1.450	0.890	0.843	1.298	0.999	1.264
Parameter	**Phosphorus, Total (mg/L)**														
No. of Samples	12	12	12	18	12	15	5	3	3	12	12	12	12	12	12
Minimum	< 0.050	< 0.050	< 0.050	0.039	0.013	0.224	< 0.010	0.028	0.053	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Maximum	0.380	0.139	0.340	2.210	0.891	1.350	0.290	0.051	0.170	1.570	0.300	0.646	0.330	0.470	0.790
Median	0.058	0.085	0.175	0.356	0.134	0.420	0.190	0.036	0.160	0.025	0.070	0.270	0.025	0.221	0.255
Arithmetic Mean	0.134	0.082	0.181	0.571	0.219	0.480	0.143	0.038	0.128	0.247	0.112	0.280	0.080	0.202	0.330
Geometric Mean	0.077	0.072	0.141	0.345	0.131	0.428	0.073	0.037	0.113	0.079	0.078	0.231	0.042	0.129	0.217
Standard Deviation	0.132	0.039	0.101	0.617	0.249	0.278	0.118	0.012	0.065	0.446	0.098	0.149	0.118	0.151	0.270
Coefficient of Variation	0.989	0.478	0.557	1.080	1.134	0.578	0.825	0.305	0.508	1.805	0.875	0.532	1.480	0.748	0.820
Parameter	**Total Coliforms (mg/L)**														
No. of Samples	12	12	12	16	11	15	5	3	3	12	12	12	12	12	12
Minimum	< 10	173	8,400	3,600	1,010	30,760	17,329	1,413	9,804	< 10	5,910	400	< 10	9,300	1,800
Maximum	482,000	3,200,000	5,200,000	1,000,000	241,960	241,960	98,040	1,986	77,010	460,000	34,000,000	800,000	180,000	54,000,000	28,000,000
Median	30,750	56,700	685,000	32,500	35,100	241,960	57,940	1,414	24,192	57,000	66,350	285,000	7,555	118,500	690,000
Arithmetic Mean	122,317	324,921	1,199,950	96,306	99,129	211,024	53,234	1,604	37,002	132,955	3,595,914	305,558	26,284	4,699,833	3,679,233
Geometric Mean	17,820	27,291	375,991	30,244	29,165	192,038	43,926	1,583	26,335	6,651	140,173	58,558	3,654	155,034	468,840
Standard Deviation	166,813	908,676	1,598,915	243,492	113,922	63,628	33,169	331	35,387	167,882	9,746,265	280,718	50,160	15,528,529	8,106,453
Coefficient of Variation	1.36	2.80	1.33	2.53	1.15	0.30	0.62	0.21	0.96	1.26	2.71	0.92	1.91	3.30	2.20
Parameter	**Total Dissolved Solids (mg/L)**														
No. of Samples	12	12	12	19	12	15	5	3	3	12	12	12	12	12	12
Minimum	92.0	132	88.0	132	28.0	32.0	330	44.0	204	85.0	246	62.0	80.0	56.0	36.0
Maximum	1,500	688	412	470	721	320	459	1,610	308	1,110	668	518	876	630	1,250
Median	325	316	142	302	215	146	340	446	268	318	443	421	293	241	361
Arithmetic Mean	531	371	185	310	303	146	366	700	260	362	450	369	333	268	405
Geometric Mean	368	335	160	294	227	119	363	316	256	306	427	330	285	207	276
Standard Deviation	482	165	109	99	215	84.0	55	813	52.5	255	149	133	211	192	330
Coefficient of Variation	0.91	0.45	0.59	0.32	0.71	0.58	0.15	1.16	0.20	0.70	0.33	0.36	0.63	0.72	0.82
Parameter	**Total Suspended Solids (mg/L)**														
No. of Samples	12	12	12	19	12	15	5	3	3	12	12	12	12	12	12
Minimum	1.770	5.330	4.000	< 5.00	< 5.00	15.00	< 2.00	1.000	5.700	12.50	3.000	2.000	32.50	< 0.944	16.00
Maximum	1,360	426.0	930.0	1770	81.00	1200.0	502.0	3.670	47.30	1,660	572.0	896.0	1,060	87.00	1,118
Median	166.5	35.52	186.0	100.0	40.50	98.0	34.00	3.200	42.00	114.0	42.34	88.00	155.5	48.50	97.50
Arithmetic Mean	309.6	117.0	282.8	365.8	42.42	244.3	119.8	2.623	31.67	275.4	148.4	279.8	290.8	51.11	267.5
Geometric Mean	115.3	45.24	134.0	86.57	28.40	122.1	15.98	2.273	22.46	93.95	43.51	62.37	169.3	34.19	105.4
Standard Deviation	403.8	149.9	307.4	534.1	26.71	317.6	215.1	1.425	22.64	470.7	194.9	332.3	321.0	27.55	365.1
Coefficient of Variation	1.30	1.28	1.09	1.46	0.63	1.30	1.80	0.54	0.72	1.71	1.31	1.19	1.10	0.54	1.37
Parameter	**Zinc (mg/L)**														
No. of Samples	12	12	12	19	12	15	5	3	3	12	12	12	12	12	12
Minimum	< 0.004	0.019	< 0.004	< 0.010	< 0.004	0.024	< 0.006	0.009	0.010	< 0.004	0.016	< 0.004	< 0.004	0.013	< 0.004
Maximum	0.108	0.122	0.168	0.199	0.108	0.215	0.038	0.025	0.064	0.129	0.108	0.070	0.088	0.132	1.407
Median	0.044	0.034	0.073	0.025	0.024	0.054	0.008	0.019	0.048	0.033	0.040	0.029	0.028	0.065	0.070
Arithmetic Mean	0.047	0.046	0.074	0.059	0.027	0.073	0.013	0.018	0.041	0.048	0.045	0.028	0.031	0.070	0.190
Geometric Mean	0.034	0.040	0.036	0.033	0.016	0.059	0.009	0.016	0.031	0.032	0.037	0.014	0.015	0.061	0.062
Standard Deviation	0.028	0.031	0.057	0.064	0.028	0.056	0.014	0.008	0.028	0.040	0.029	0.022	0.028	0.032	0.392
Coefficient of Variation	0.608	0.666	0.765	1.082	1.025	0.762	1.088	0.445	0.691	0.832	0.643	0.811	0.909	0.460	2.064

Table E-2 (Cont.)

Summary Statistics of Sampled Data by Entity and Watershed

Entity	Mesquite		NTTA				Plano			TxDOT		
Watershed	South Mesquite Creek	North Mesquite Creek	Elm Fork	Spring Creek	Panther Creek	Cottonwood Branch	White Rock Creek	Upper Rowlett Creek	Upper Spring Creek	Muddy Creek	Middle White Rock Creek	Prairie Creek
Parameter	Arsenic, Total (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Maximum	0.027	0.027	0.010	0.030	0.025	0.001	0.010	0.010	0.012	0.015	0.005	0.006
Median	0.003	0.005	0.001	0.009	0.002	0.001	0.001	0.003	0.004	0.003	0.002	0.003
Arithmetic Mean	0.004	0.007	0.003	0.009	0.007	0.001	0.002	0.004	0.004	0.007	0.003	0.003
Geometric Mean	0.003	0.006	0.002	0.006	0.003	0.001	0.001	0.003	0.003	0.004	0.002	0.002
Standard Deviation	0.006	0.007	0.003	0.009	0.012	0.000	0.003	0.003	0.003	0.007	0.002	0.002
Coefficient of Variation	1.362	0.925	1.050	0.984	1.633	0.000	1.297	0.896	0.816	0.982	0.676	0.690
Parameter	Biochemical Oxygen Demand 5-Day (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	0.62	3.37	<3.00	2.80	1.80	4.46	<3.00	< 2.00	3.13	<3.00	2.40	5.36
Maximum	32.00	18.00	11.20	21.00	16.00	14.10	6.82	10.00	28.60	22.00	20.00	17.20
Median	6.32	7.27	4.23	8.42	10.19	7.37	3.48	5.29	10.48	8.41	11.42	5.71
Arithmetic Mean	7.60	8.12	4.83	10.82	9.55	8.32	3.90	5.24	12.72	10.05	10.57	8.40
Geometric Mean	5.17	7.22	3.64	8.31	7.24	7.60	3.28	4.14	10.10	6.56	8.85	7.40
Standard Deviation	6.91	4.27	3.70	7.71	6.31	4.19	2.23	2.96	8.92	8.20	5.83	5.08
Coefficient of Variation	0.91	0.53	0.77	0.71	0.66	0.50	0.57	0.57	0.70	0.82	0.55	0.61
Parameter	Chemical Oxygen Demand (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	5.00	< 1.00	< 1.00	10.20	23.00	4.90	< 1.00	< 1.00	15.70	15.90	< 1.00	21.90
Maximum	109.00	80.10	79.00	77.90	62.30	46.00	89.00	113.00	59.00	900.00	85.00	90.80
Median	29.00	27.60	19.80	36.00	41.45	30.50	12.90	28.55	38.55	45.45	13.50	53.70
Arithmetic Mean	44.94	30.69	27.51	40.29	42.05	27.98	24.58	33.41	36.44	147.21	35.10	54.69
Geometric Mean	33.20	14.91	11.55	31.81	38.35	20.86	13.58	17.35	33.68	52.06	16.15	47.52
Standard Deviation	33.94	25.54	28.15	26.61	19.93	18.71	26.64	32.26	13.97	304.81	35.44	28.61
Coefficient of Variation	0.76	0.83	1.02	0.66	0.47	0.67	1.08	0.97	0.38	2.07	1.01	0.52
Parameter	Chromium, Total (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Maximum	0.021	0.011	0.024	0.018	0.080	0.008	0.030	0.018	0.008	0.020	0.005	0.017
Median	0.005	0.004	0.007	0.005	0.002	0.003	0.005	0.004	0.002	0.005	0.003	0.004
Arithmetic Mean	0.006	0.005	0.009	0.007	0.021	0.004	0.007	0.006	0.003	0.007	0.003	0.005
Geometric Mean	0.004	0.004	0.006	0.005	0.004	0.003	0.004	0.004	0.002	0.005	0.003	0.004
Standard Deviation	0.005	0.004	0.008	0.006	0.039	0.003	0.008	0.005	0.002	0.006	0.001	0.005
Coefficient of Variation	0.802	0.778	0.890	0.819	1.858	0.784	1.210	0.852	0.731	0.894	0.489	1.017
Parameter	Copper, Total (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.008	0.010	0.016	0.028	0.027	< 0.008	< 0.008	< 0.020	< 0.008	< 0.008	< 0.010	< 0.008
Maximum	0.058	0.035	0.032	0.060	0.093	0.070	0.140	0.049	0.050	0.065	0.053	0.064
Median	0.024	0.022	0.023	0.034	0.055	0.036	0.019	0.024	0.039	0.026	0.028	0.050
Arithmetic Mean	0.026	0.022	0.024	0.041	0.057	0.037	0.028	0.027	0.030	0.030	0.032	0.041
Geometric Mean	0.020	0.021	0.023	0.039	0.049	0.017	0.019	0.024	0.020	0.020	0.027	0.028
Standard Deviation	0.016	0.007	0.006	0.012	0.035	0.038	0.036	0.013	0.019	0.022	0.017	0.024
Coefficient of Variation	0.589	0.332	0.231	0.304	0.606	1.029	1.296	0.478	0.640	0.729	0.512	0.581
Parameter	E. coli (col/100 mL)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 1	< 1	< 10	1,640	300	100	< 10	< 1	< 1	< 10	< 1	< 1
Maximum	15,400	2,300,000	54,300	200,000	9,000	6,200	31,000	360,000	11,000	20,000	46,400	12,000
Median	345	1,045	365	28,650	2,850	2,600	4,400	908	1,650	3,820	4,500	3,700
Arithmetic Mean	2,036	359,491	8,071	61,345	3,750	2,875	7,668	34,100	2,474	6,219	9,051	4,525
Geometric Mean	131	996	253	25,730	2,126	887	1,088	568	657	586	601	435
Standard Deviation	3,559	838,789	18,892	70,893	3,751	3,185	9,582	102,978	3,054	7,597	15,434	4,579
Coefficient of Variation	1.75	2.33	2.34	1.16	1.00	1.11	1.25	3.02	1.23	1.22	1.71	1.01
Parameter	Field pH (su)											
No. of Samples	24	12	8	8	3	4	12	12	11	8	8	8
Minimum	6.90	7.76	7.74	8.34	6.50	6.90	6.34	7.65	7.00	6.06	7.18	7.60
Maximum	10.40	9.03	8.37	10.21	8.21	9.08	8.68	9.43	8.19	8.80	8.85	9.35
Median	7.97	8.03	8.05	9.29	6.96	7.07	8.05	8.77	7.22	8.17	7.57	7.85
Arithmetic Mean	8.26	8.19	8.03	9.21	7.22	7.53	7.70	8.61	7.42	7.84	7.81	8.04
Geometric Mean	8.22	8.18	8.03	9.19	7.18	7.48	7.65	8.59	7.40	7.79	7.78	8.02
Standard Deviation	0.93	0.42	0.20	0.58	0.89	1.04	0.84	0.56	0.49	0.96	0.73	0.60
Coefficient of Variation	0.11	0.05	0.03	0.06	0.12	0.14	0.11	0.07	0.07	0.12	0.09	0.08
Parameter	Lab pH (su)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	7.04	6.63	7.16	6.99	7.44	7.49	7.25	6.72	7.15	7.27	6.75	7.17
Maximum	8.93	7.84	8.07	8.56	8.13	7.76	8.89	7.80	8.34	7.83	8.01	7.98
Median	7.54	7.44	7.52	7.67	7.96	7.64	7.66	7.57	7.57	7.56	7.57	7.50
Arithmetic Mean	7.60	7.32	7.53	7.70	7.87	7.63	7.72	7.46	7.56	7.59	7.50	7.51
Geometric Mean	7.59	7.31	7.52	7.69	7.87	7.63	7.71	7.46	7.56	7.59	7.49	7.51
Standard Deviation	0.38	0.39	0.30	0.44	0.31	0.12	0.42	0.35	0.36	0.20	0.40	0.27
Coefficient of Variation	0.05	0.05	0.04	0.06	0.04	0.02	0.05	0.05	0.05	0.03	0.05	0.04
Parameter	Lead, Total (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.002	0.009	< 0.004	< 0.010	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.004
Maximum	0.015	0.026	0.228	0.078	0.039	0.038	0.022	0.048	0.015	0.043	0.023	0.025
Median	0.005	0.012	0.004	0.013	0.006	0.007	0.002	0.010	0.005	0.005	0.008	0.005
Arithmetic Mean	0.007	0.014	0.033	0.022	0.013	0.014	0.005	0.014	0.005	0.014	0.010	0.009
Geometric Mean	0.005	0.013	0.006	0.016	0.007	0.007	0.003	0.009	0.004	0.007	0.009	0.007
Standard Deviation	0.005	0.006	0.079	0.024	0.017	0.017	0.006	0.014	0.004	0.016	0.006	0.009
Coefficient of Variation	0.695	0.401	2.412	1.058	1.309	1.259	1.186	0.983	0.721	1.166	0.630	0.930

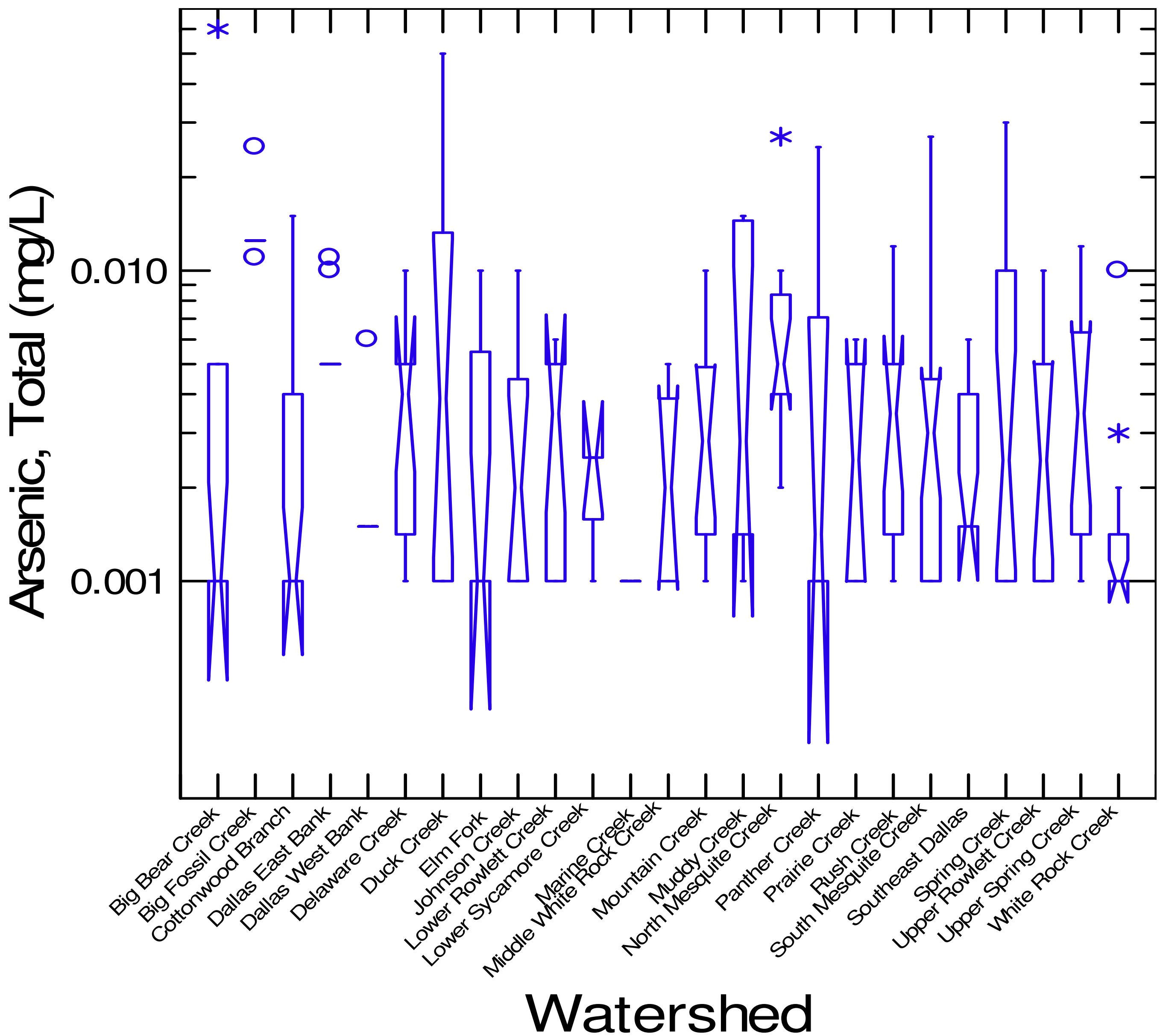
Table E-2 (Cont.)

Summary Statistics of Sampled Data by Entity and Watershed

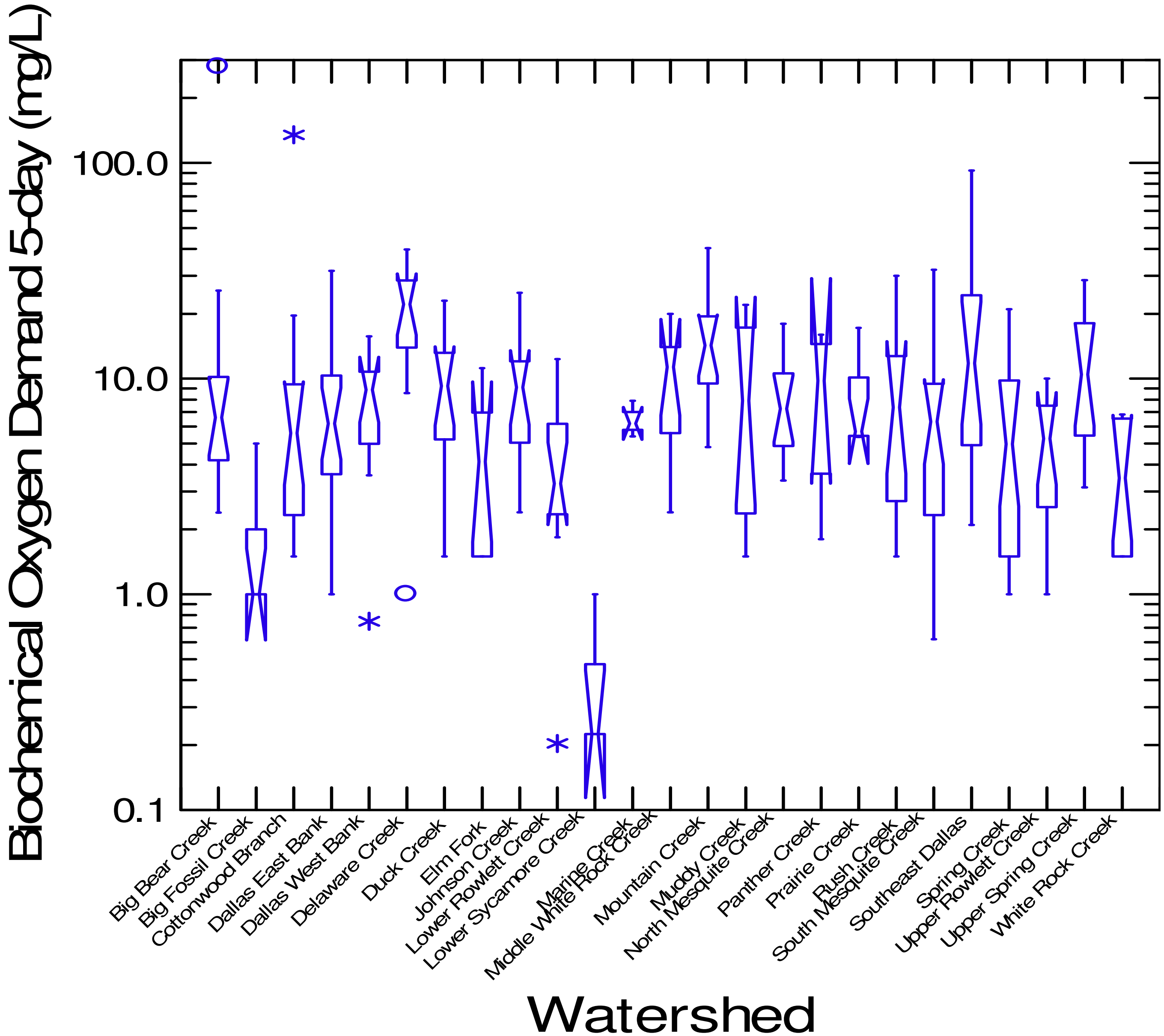
Entity	Mesquite		NTTA				Plano			TxDOT		
Watershed	South Mesquite Creek	North Mesquite Creek	Elm Fork	Spring Creek	Panther Creek	Cottonwood Branch	White Rock Creek	Upper Rowlett Creek	Upper Spring Creek	Muddy Creek	Middle White Rock Creek	Prairie Creek
Parameter	Nitrogen, Total (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.050	< 0.050	< 0.050	< 0.050	1.300	2.200	< 0.050	< 0.050	< 0.050	< 0.050	< 0.500	< 0.050
Maximum	63.00	11.00	14.00	6.000	2.600	4.800	4.560	8.000	3.300	21.50	10.00	2.200
Median	2.200	3.085	1.335	2.610	1.900	3.450	1.915	1.300	1.950	2.110	3.465	0.800
Arithmetic Mean	6.965	3.666	4.371	2.689	1.925	3.475	1.966	2.623	1.869	4.209	3.922	0.922
Geometric Mean	2.055	2.247	0.966	0.965	1.857	3.334	1.339	0.973	1.210	1.358	2.575	0.299
Standard Deviation	13.80	2.866	5.952	2.157	0.585	1.124	1.181	2.815	1.066	7.097	3.126	0.889
Coefficient of Variation	1.98	0.78	1.36	0.80	0.30	0.32	0.60	1.07	0.57	1.69	0.80	0.96
Parameter	Oil and Grease (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Maximum	16.3	6.70	3.40	316	32.1	0.70	11.4	623	26.6	8.74	266	0.70
Median	0.70	1.55	0.70	3.25	0.70	0.70	0.70	3.15	0.70	2.24	3.75	0.70
Arithmetic Mean	2.09	2.76	1.14	43.0	8.55	0.70	2.43	55.0	3.73	3.33	37.0	0.70
Geometric Mean	1.18	2.02	0.94	4.58	1.82	0.70	1.33	3.79	1.44	1.99	4.86	0.70
Standard Deviation	3.49	2.12	0.96	110	15.7	0.00	3.34	179	7.42	3.14	92.6	0.00
Coefficient of Variation	1.67	0.77	0.84	2.57	1.84	0.00	1.37	3.25	1.99	0.94	2.51	0.00
Parameter	Phosphorus, Dissolved (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 1.000
Maximum	2.40	0.330	0.253	0.320	0.120	0.420	0.138	0.400	0.180	0.096	0.180	0.130
Median	0.050	0.070	0.025	0.050	0.042	0.210	0.025	0.050	0.050	0.025	0.050	0.070
Arithmetic Mean	0.159	0.115	0.076	0.094	0.057	0.216	0.034	0.105	0.059	0.039	0.072	0.080
Geometric Mean	0.058	0.076	0.048	0.062	0.046	0.135	0.029	0.060	0.048	0.033	0.057	0.075
Standard Deviation	0.479	0.103	0.086	0.101	0.045	0.185	0.033	0.129	0.044	0.027	0.059	0.030
Coefficient of Variation	3.022	0.893	1.128	1.075	0.779	0.854	0.948	1.237	0.756	0.691	0.809	0.378
Parameter	Phosphorus, Total (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.110	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 1.000
Maximum	3.850	0.330	0.786	0.650	1.480	0.290	1.540	0.625	0.29	0.39	0.3	0.55
Median	0.111	0.149	0.521	0.100	0.120	0.225	0.059	0.090	0.135	0.126	0.095	0.15
Arithmetic Mean	0.302	0.161	0.464	0.207	0.436	0.212	0.232	0.176	0.138	0.151	0.115	0.206
Geometric Mean	0.122	0.125	0.341	0.108	0.151	0.200	0.089	0.104	0.097	0.093	0.081	0.152
Standard Deviation	0.764	0.100	0.245	0.227	0.697	0.075	0.430	0.192	0.1	0.134	0.096	0.171
Coefficient of Variation	2.526	0.623	0.529	1.093	1.599	0.353	1.853	1.089	0.727	0.889	0.838	0.829
Parameter	Total Coliforms (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 1	2,800	< 10	1,000	4,400	4,800	< 10	500	1,200	112	2,100	100
Maximum	1,900,000	35,400,000	150,000	63,000,000	630,000	4,300,000	400,000	5,200,000	75,000,000	526,000	3,400,000	800,000
Median	59,500	68,300	11,950	1,140,000	50,300	101,000	50,350	30,100	410,000	48,000	188,500	118,000
Arithmetic Mean	227,231	6,551,475	33,737	11,299,988	183,750	1,126,700	87,601	778,963	6,883,817	155,452	709,263	298,525
Geometric Mean	8,642	169,620	2,213	579,771	40,326	119,379	11,019	43,996	200,127	27,309	119,742	52,508
Standard Deviation	399,086	12,231,641	52,768	22,305,917	300,042	2,116,076	113,482	1,727,401	21,480,669	204,003	1,162,585	337,855
Coefficient of Variation	1.76	1.87	1.56	1.97	1.63	1.88	1.30	2.22	3.12	1.31	1.64	1.13
Parameter	Total Dissolved Solids (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	70.0	168	155	48.0	624	96.0	110	48.0	32.0	45.0	140	102
Maximum	20,300	636	412	706	746	256	922	520	536	495	414	540
Median	244	272	320	160	693	203	373	328	235	270	226	288
Arithmetic Mean	1,097	317	290	245	689	190	418	318	253	253	250	299
Geometric Mean	264	297	275	168	688	177	355	276	211	205	239	263
Standard Deviation	4,093	131	94.5	232	50.3	73.6	241	130	134	141	84.2	155
Coefficient of Variation	3.73	0.41	0.33	0.95	0.07	0.39	0.58	0.41	0.53	0.56	0.34	0.52
Parameter	Total Suspended Solids (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	6.000	< 0.944	2.500	< 0.944	41.00	36.00	4.670	1.330	8.000	12.50	23.00	8.000
Maximum	1,566	292.7	734.0	366.0	284.0	104.0	437.0	2,340	276.0	634.0	295.0	448.0
Median	108.5	26.00	172.5	81.67	117.0	77.50	87.50	52.17	122.0	98.25	37.85	143.0
Arithmetic Mean	267.8	56.66	258.5	115.6	139.8	73.75	112.8	458.6	129.6	156.5	81.83	176.9
Geometric Mean	122.4	24.20	114.9	40.13	102.5	68.70	51.42	59.54	84.70	91.09	53.35	92.12
Standard Deviation	346.8	80.63	269.6	123.7	115.5	28.76	126.8	798.2	97.20	199.2	93.11	165.9
Coefficient of Variation	1.30	1.42	1.04	1.07	0.83	0.39	1.12	1.74	0.75	1.27	1.14	0.94
Parameter	Zinc (mg/L)											
No. of Samples	24	12	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.004	0.029	0.018	0.049	0.016	< 0.004	0.025	0.017	0.005	0.018	0.039	0.019
Maximum	0.201	0.070	0.198	0.119	0.220	0.748	0.141	0.138	0.126	0.128	0.114	0.286
Median	0.053	0.043	0.050	0.099	0.049	0.069	0.038	0.037	0.041	0.044	0.058	0.061
Arithmetic Mean	0.059	0.047	0.063	0.093	0.083	0.222	0.045	0.049	0.050	0.051	0.064	0.092
Geometric Mean	0.040	0.046	0.047	0.090	0.053	0.048	0.039	0.040	0.035	0.041	0.060	0.065
Standard Deviation	0.042	0.014	0.058	0.023	0.093	0.352	0.031	0.036	0.037	0.037	0.024	0.088
Coefficient of Variation	0.718	0.296	0.934	0.246	1.112	1.590	0.707	0.720	0.750	0.719	0.382	0.952

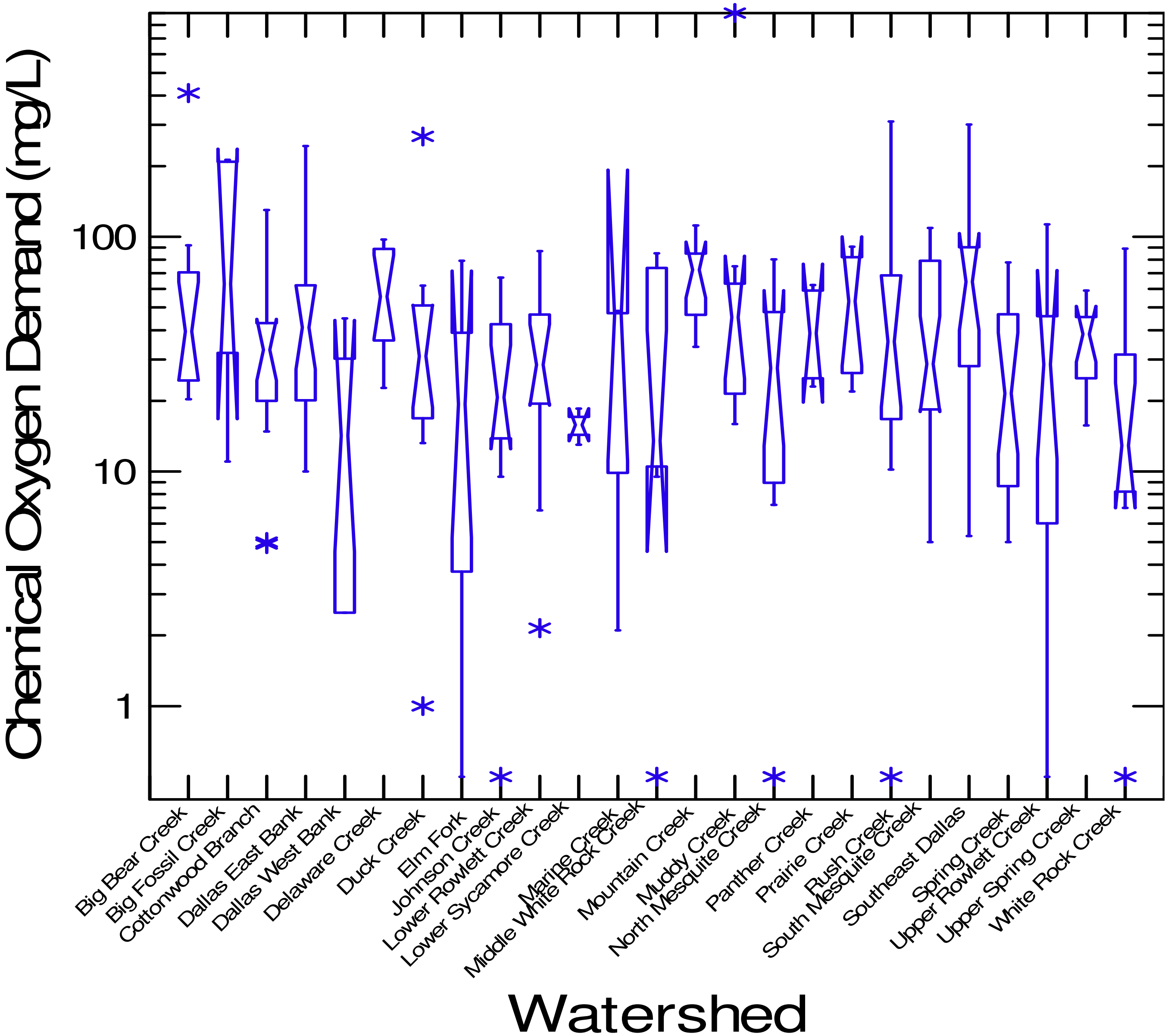
Appendix E

Box-Whisker Plots by Entity

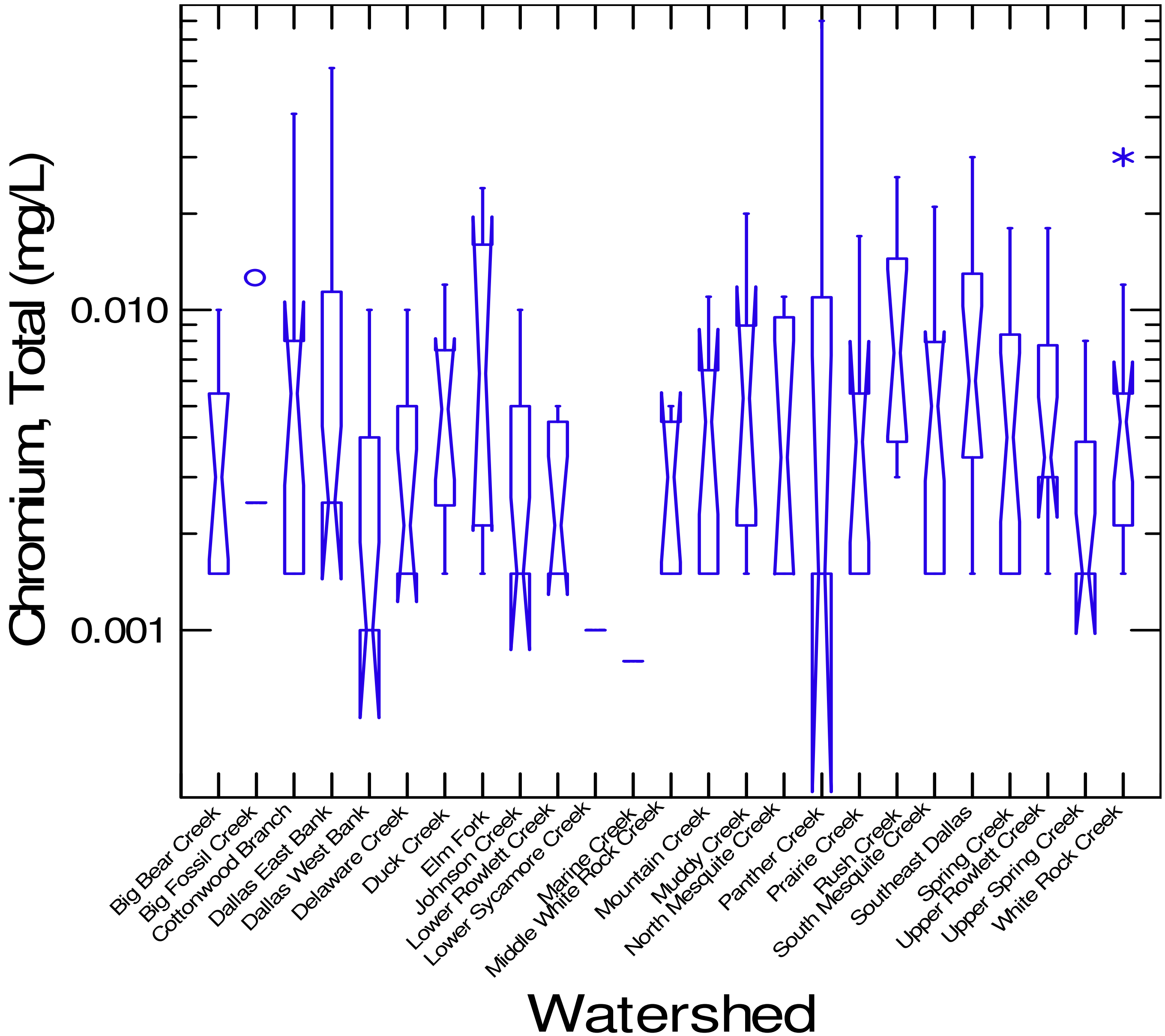


Arsenic, Total (mg/L)
0.010
0.001
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed

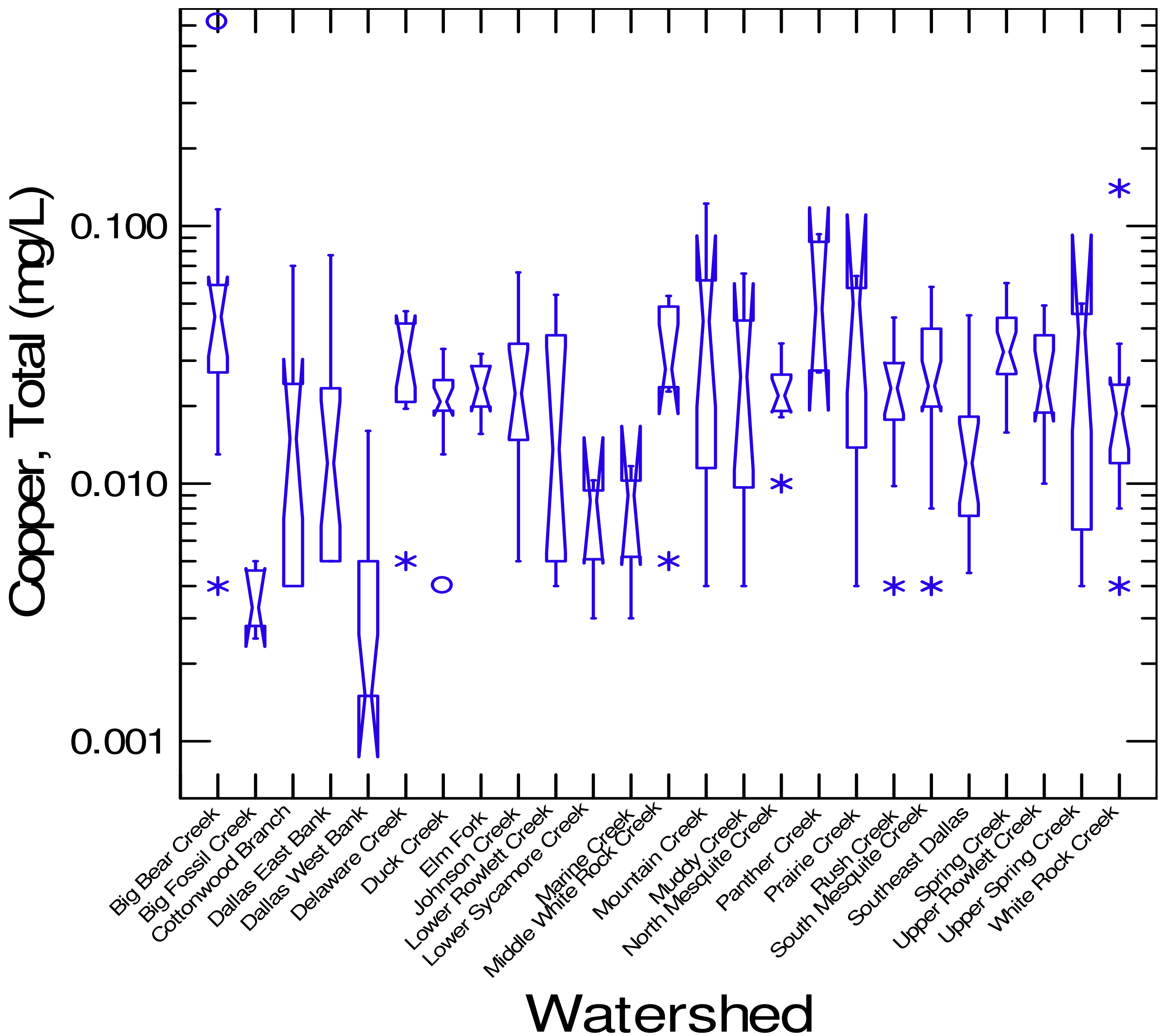

Biochemical Oxygen Demand 5-day (mg/L)
100.0
10.0
1.0
0.1
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



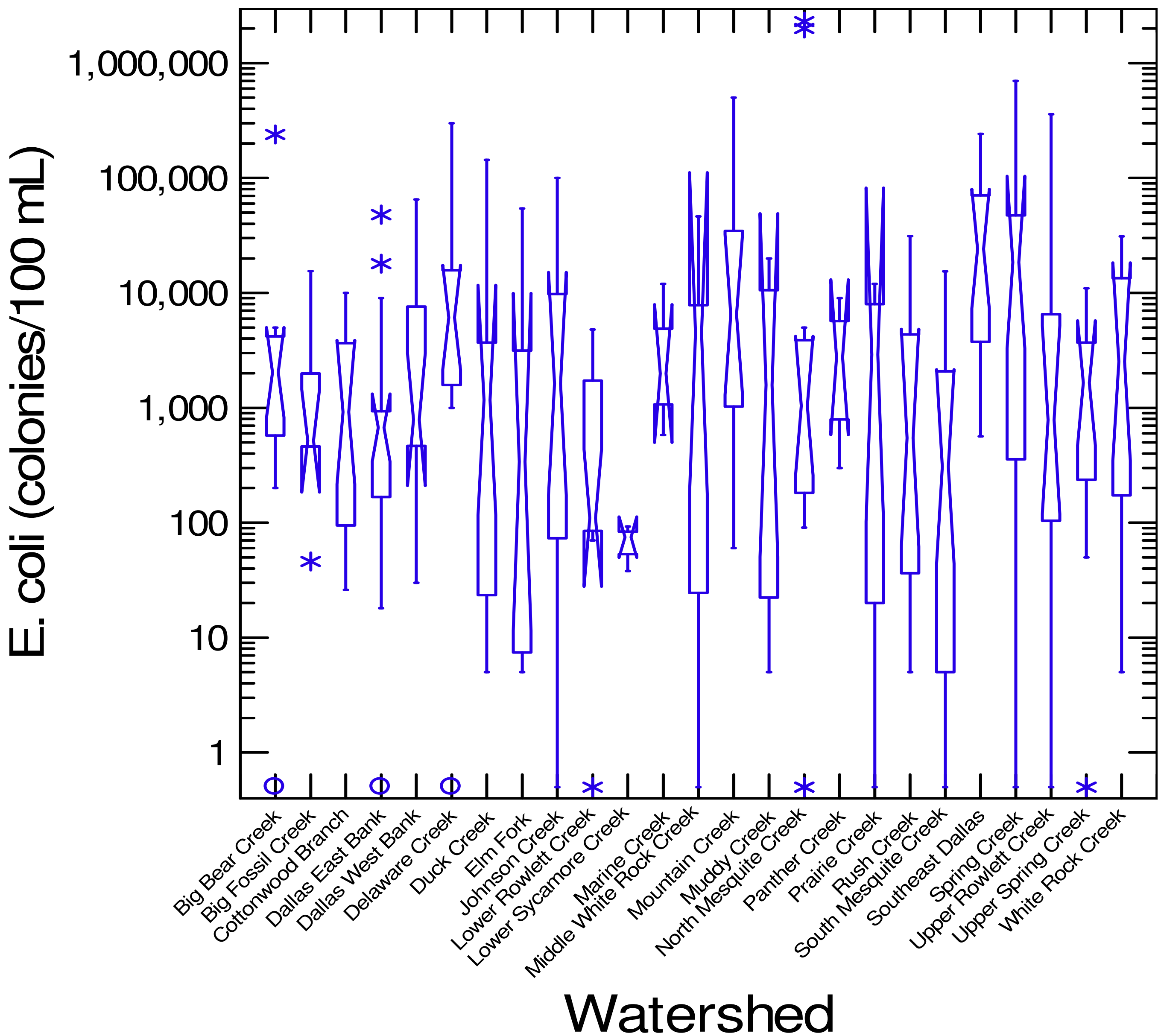
Chemical Oxygen Demand (mg/L)
100
10
1
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



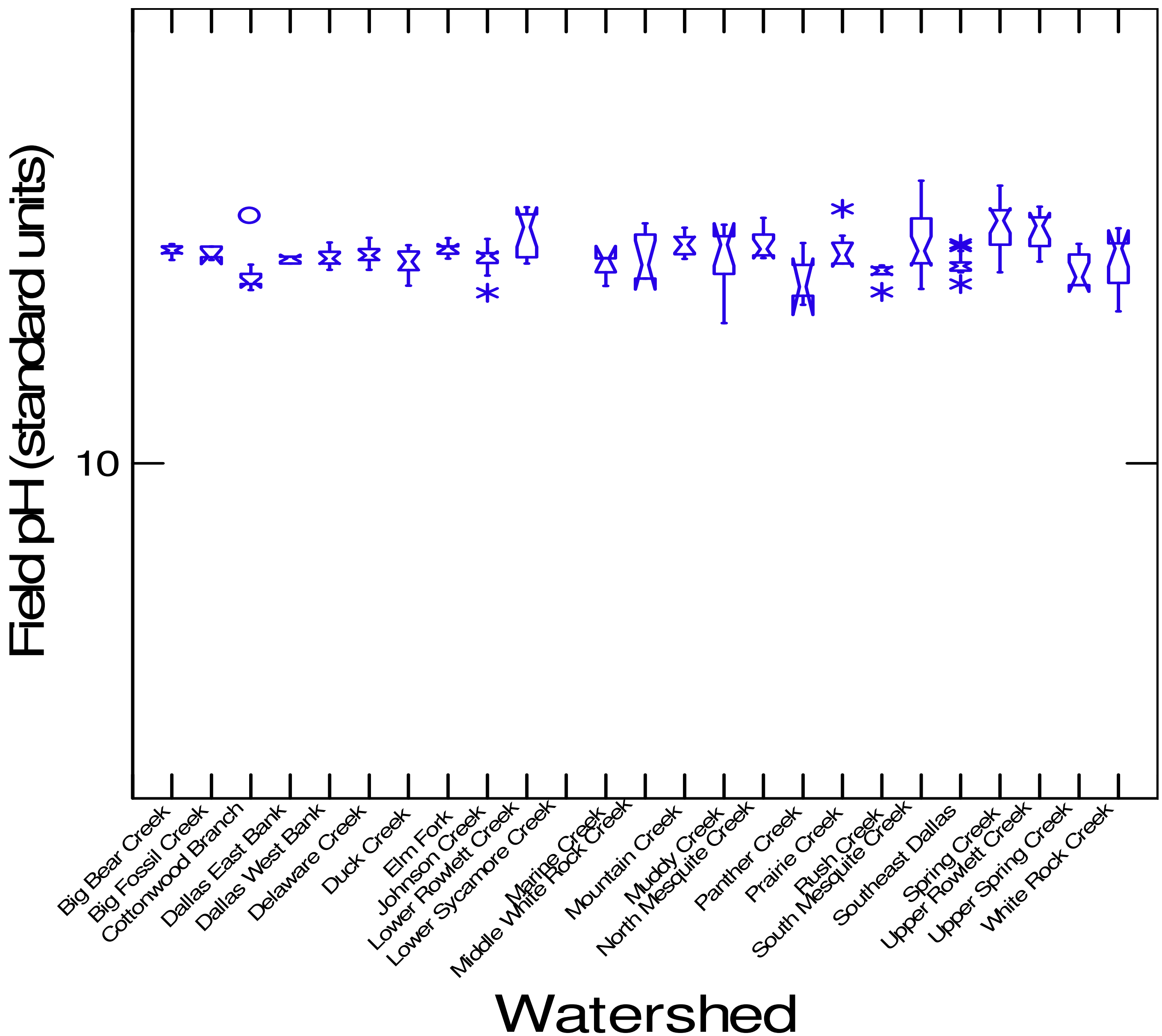
Chromium, Total (mg/L)
0.010
0.001
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



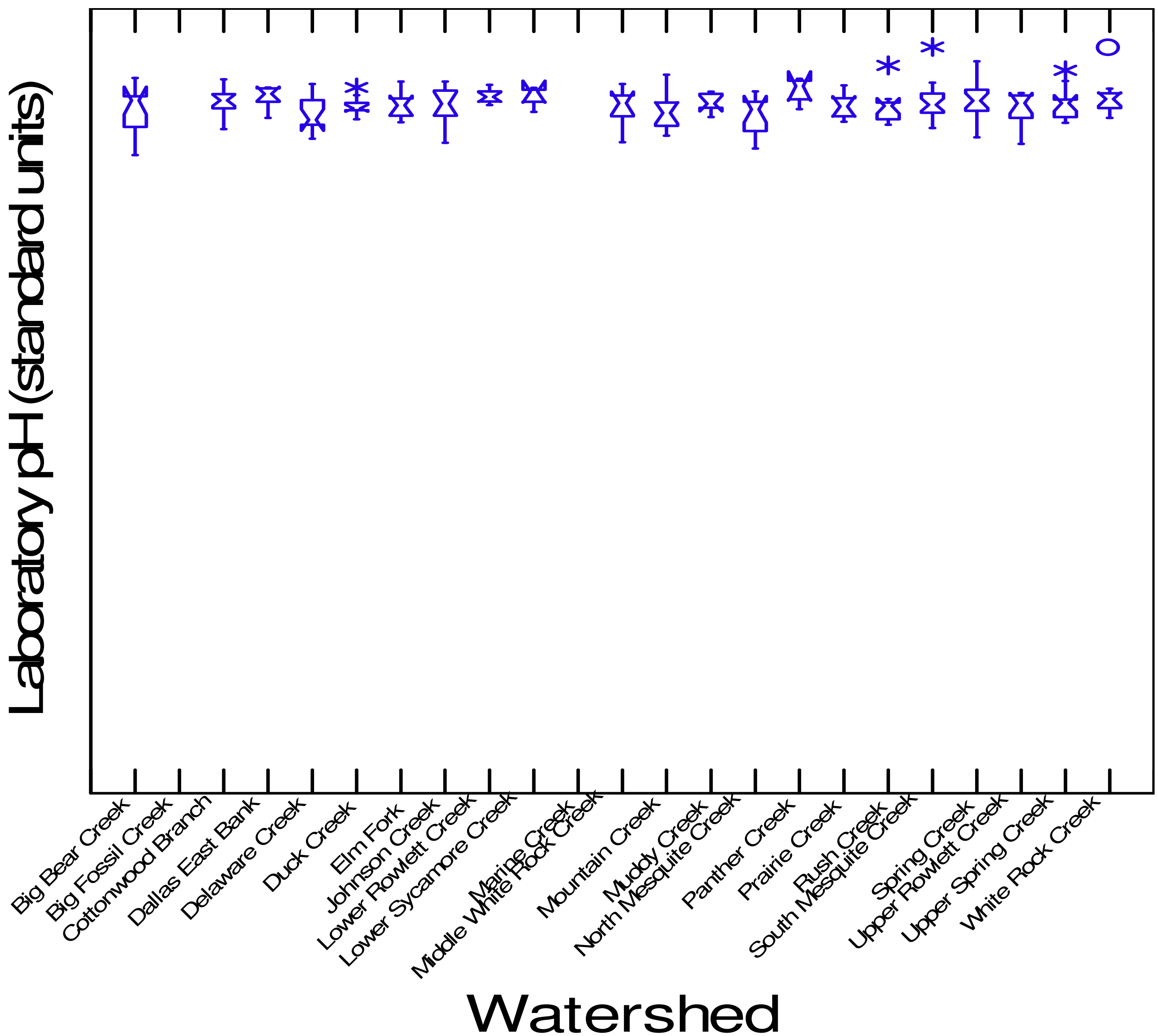
Copper, Total (mg/L)
0.100
0.010
0.001
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



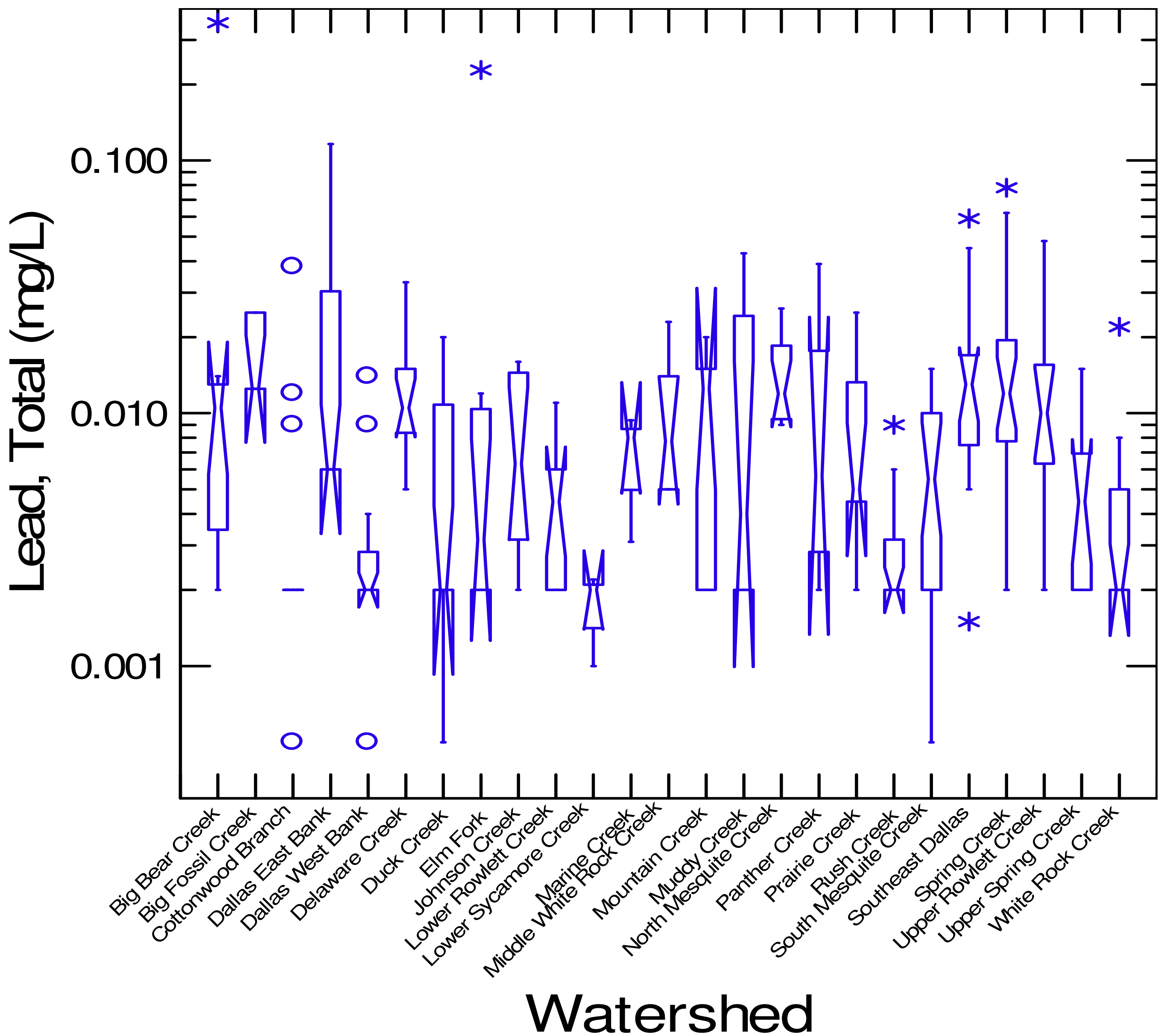
E. coli (colonies/100 mL)
1,000,000
100,000
10,000
1,000
100
10
1
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



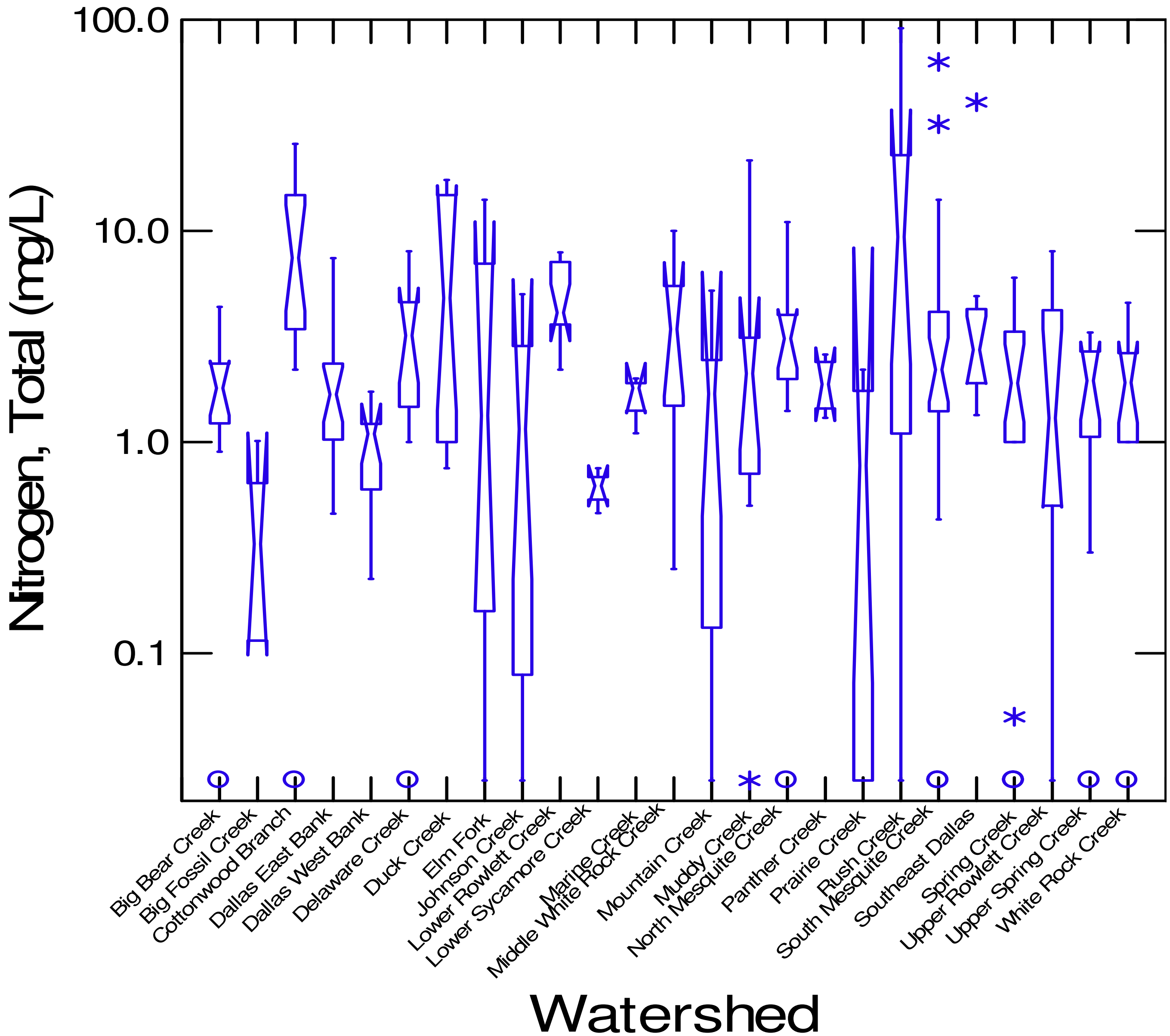
Field pH (standard units)
10
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



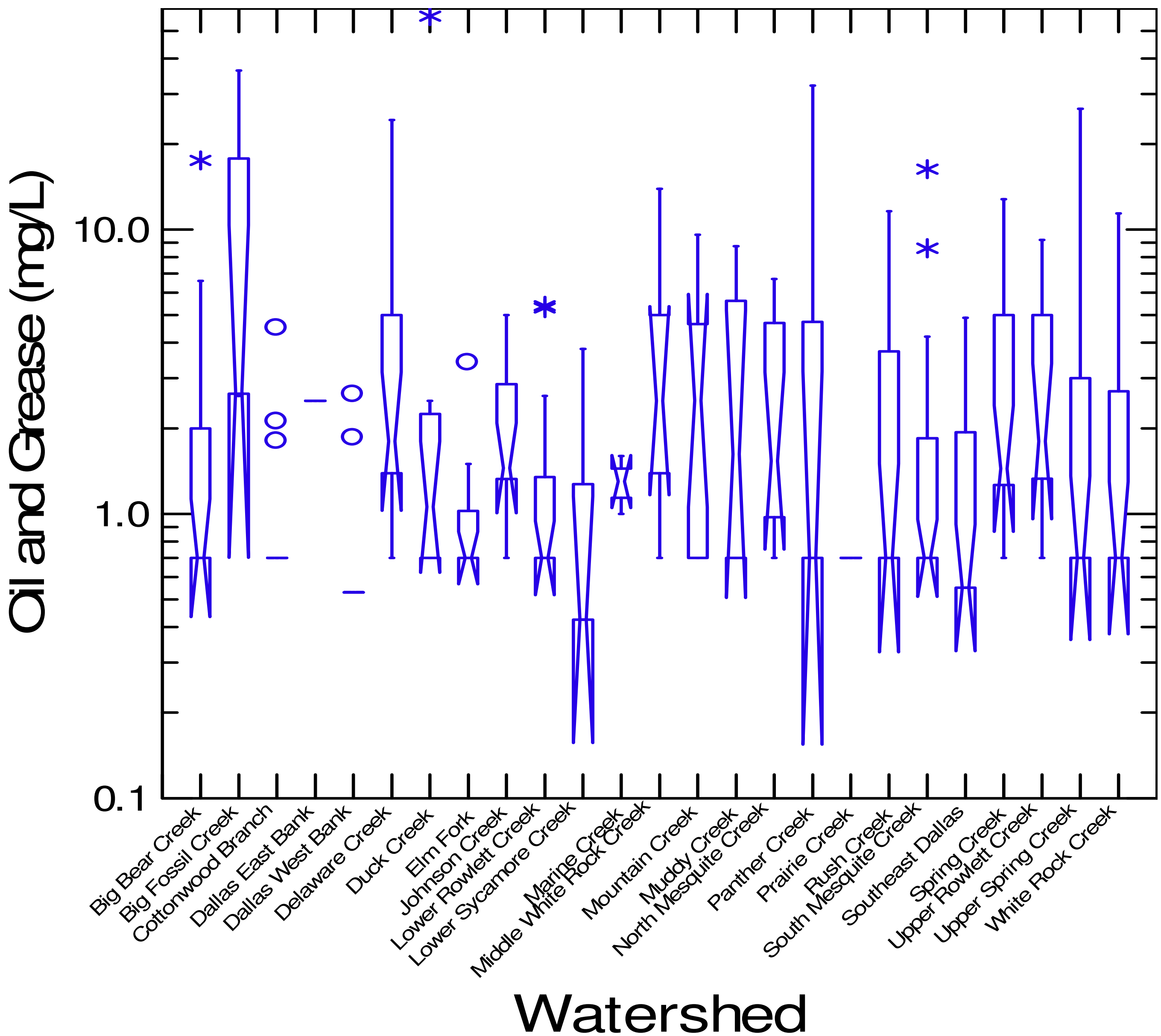
Laboratory pH (standard units)
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed

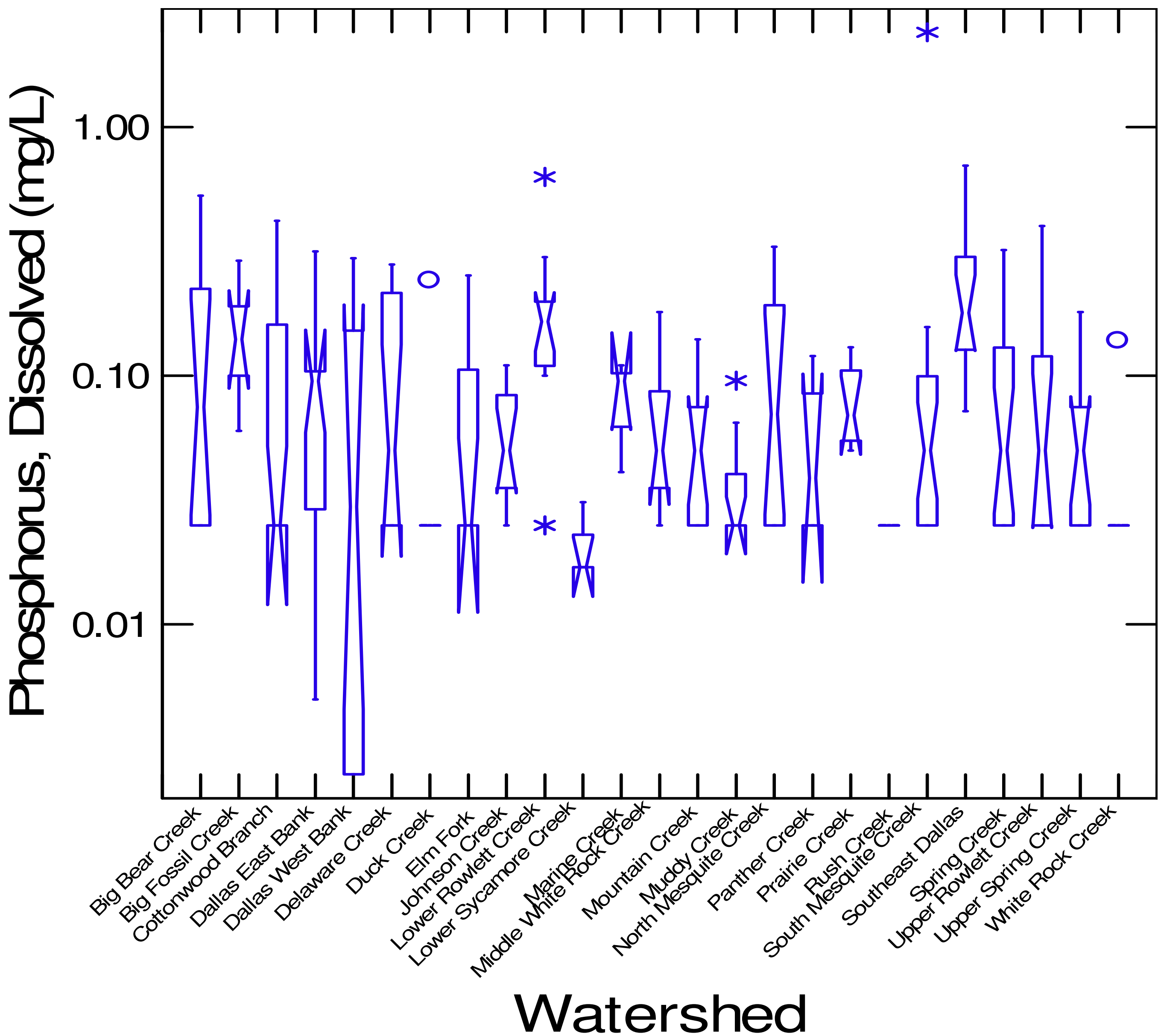


Lead, Total (mg/L)
0.100
0.010
0.001
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed

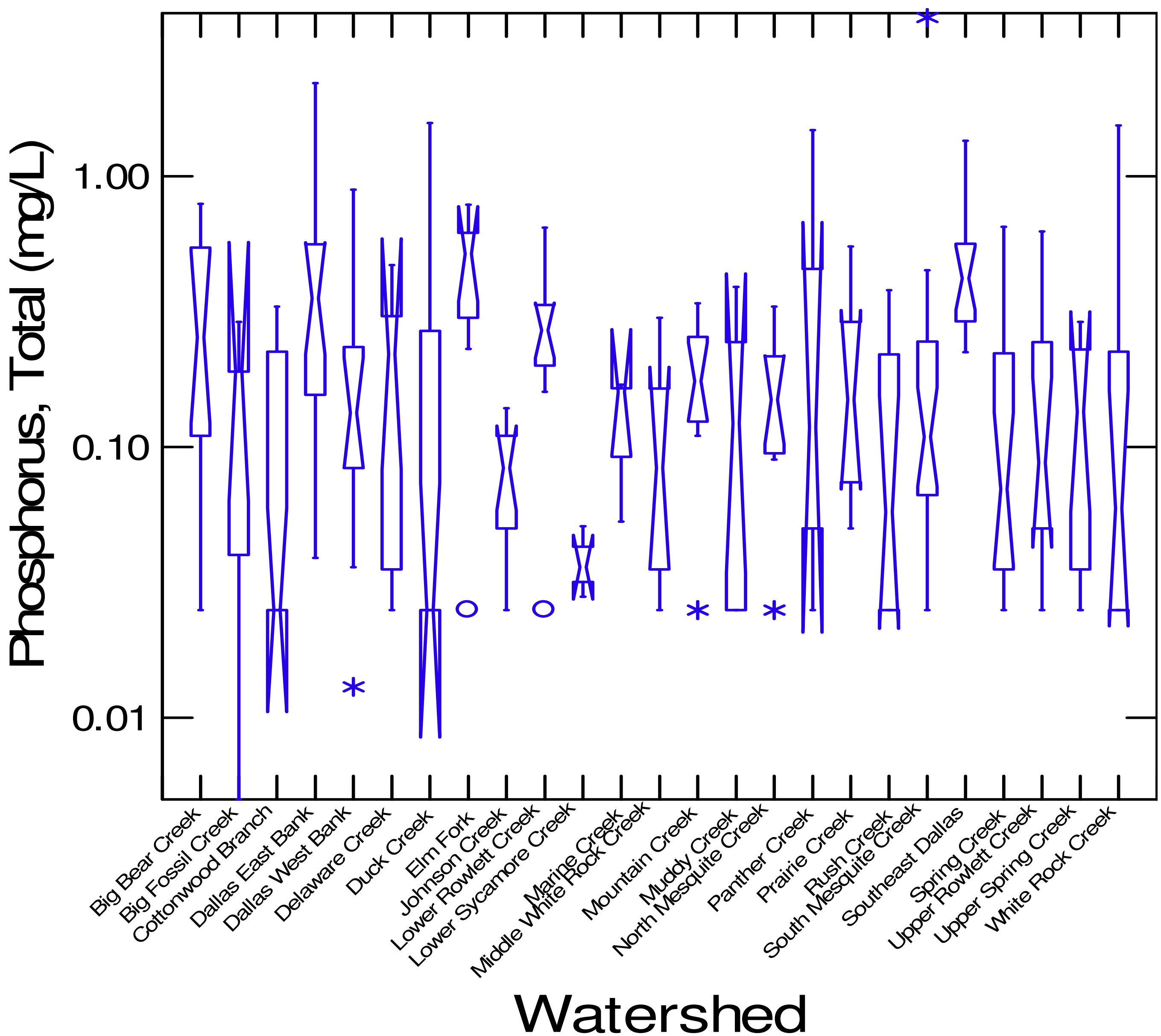


100.0
10.0
1.0
0.1
Nitrogen, Total (mg/L)
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed

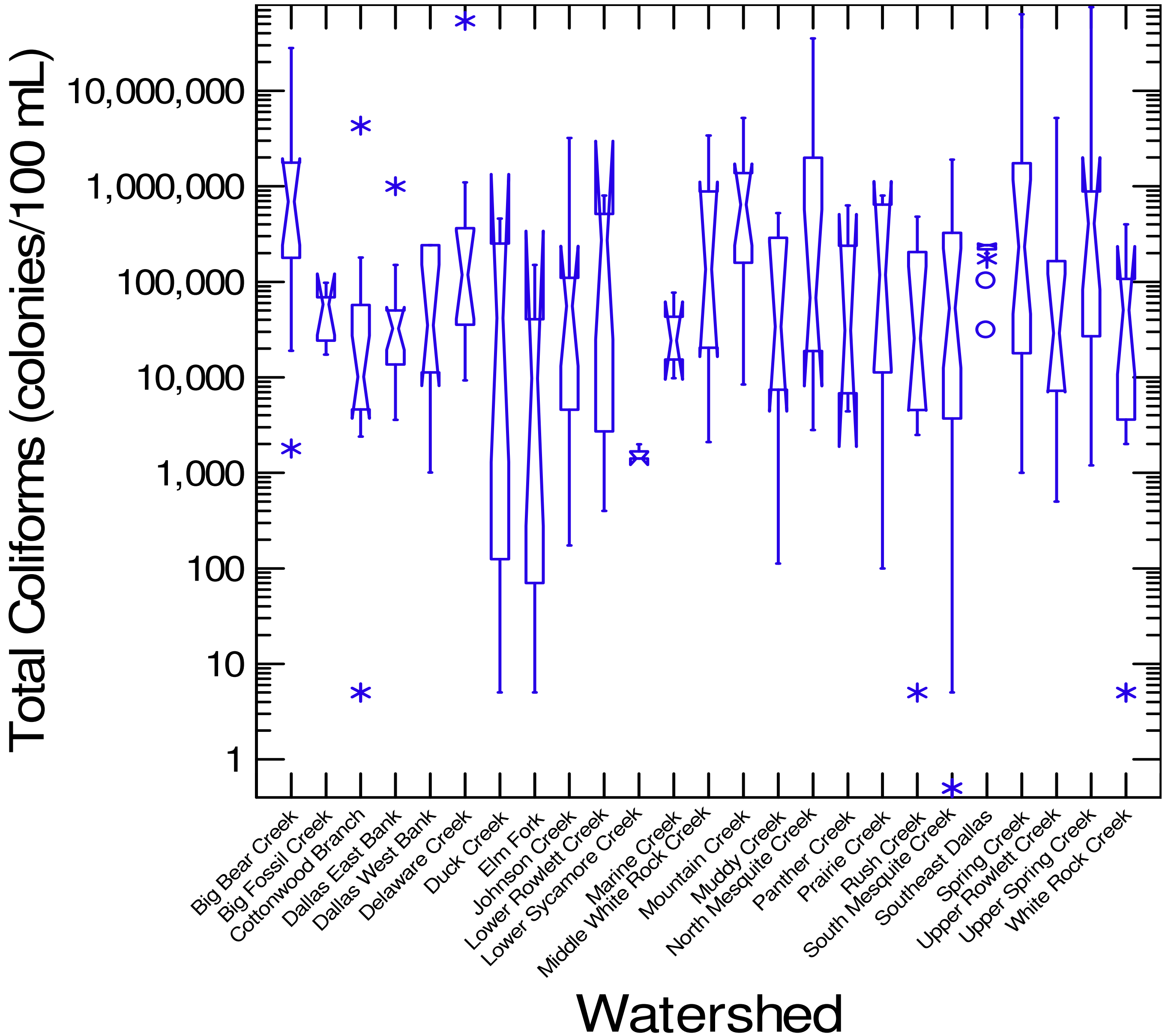

Oil and Grease (mg/L)
10.0
1.0
0.1
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



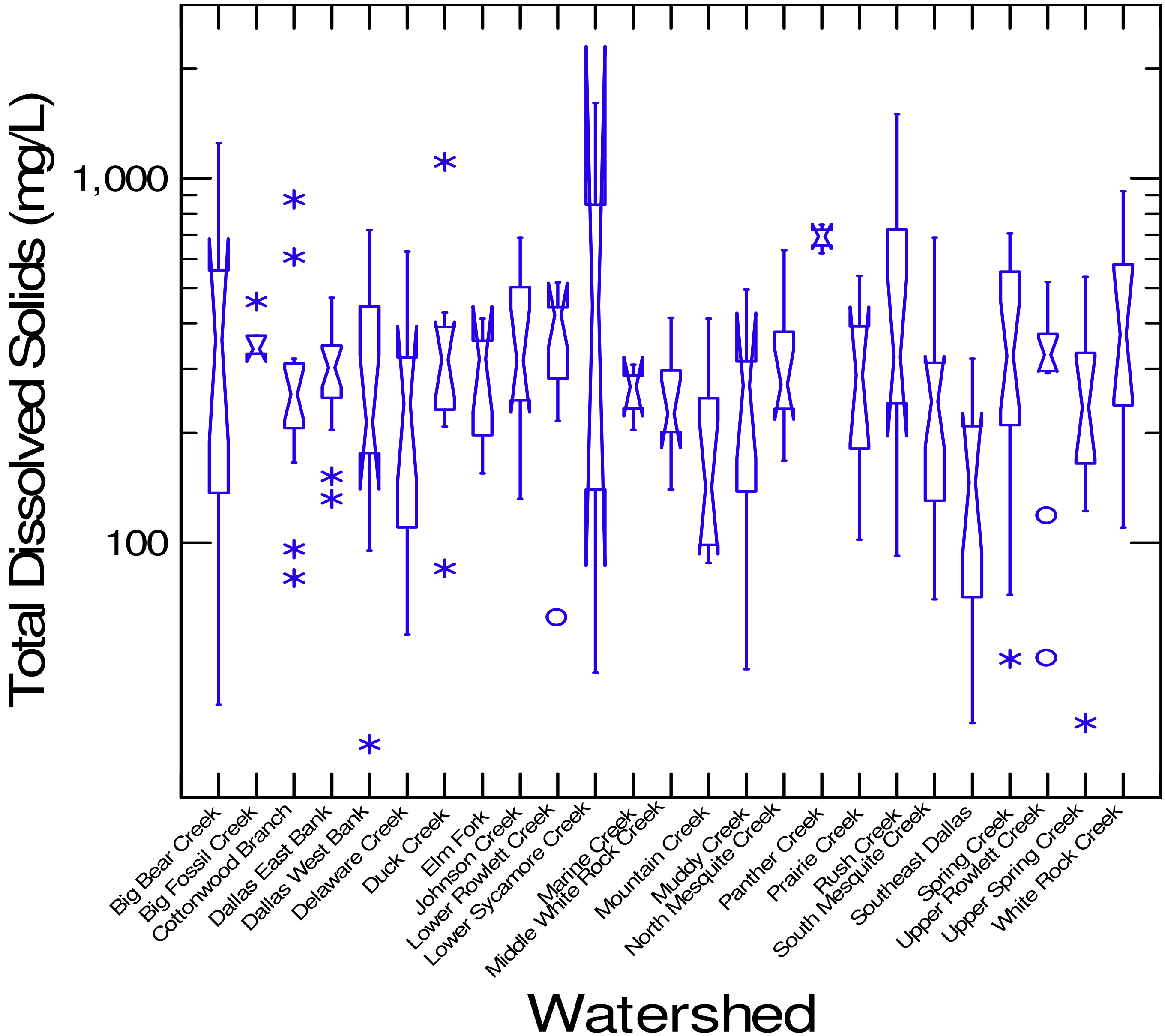
Phosphorus, Dissolved (mg/L)
1.00
0.10
0.01
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



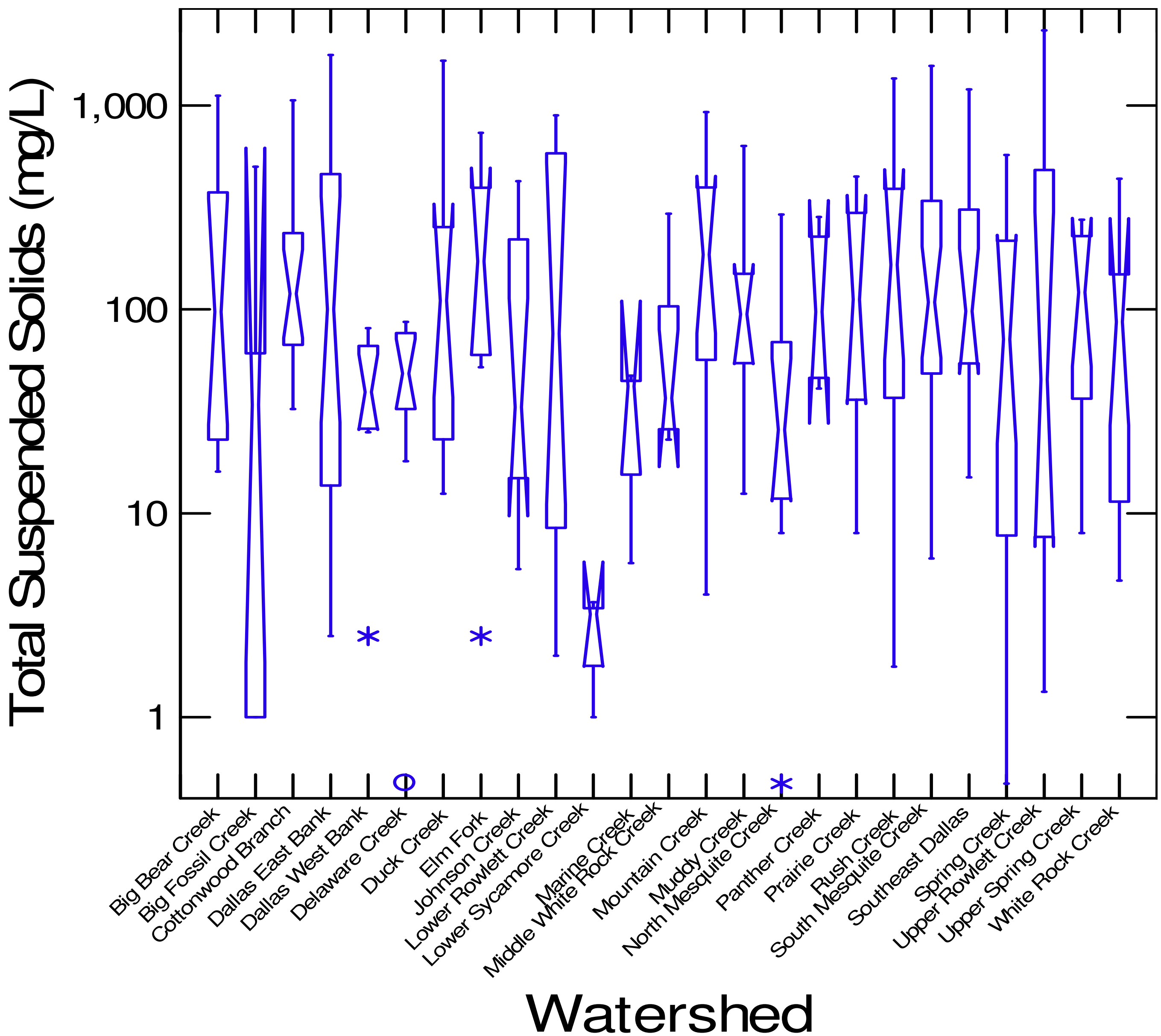
Phosphorus, Total (mg/L)
1.00
0.10
0.01
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



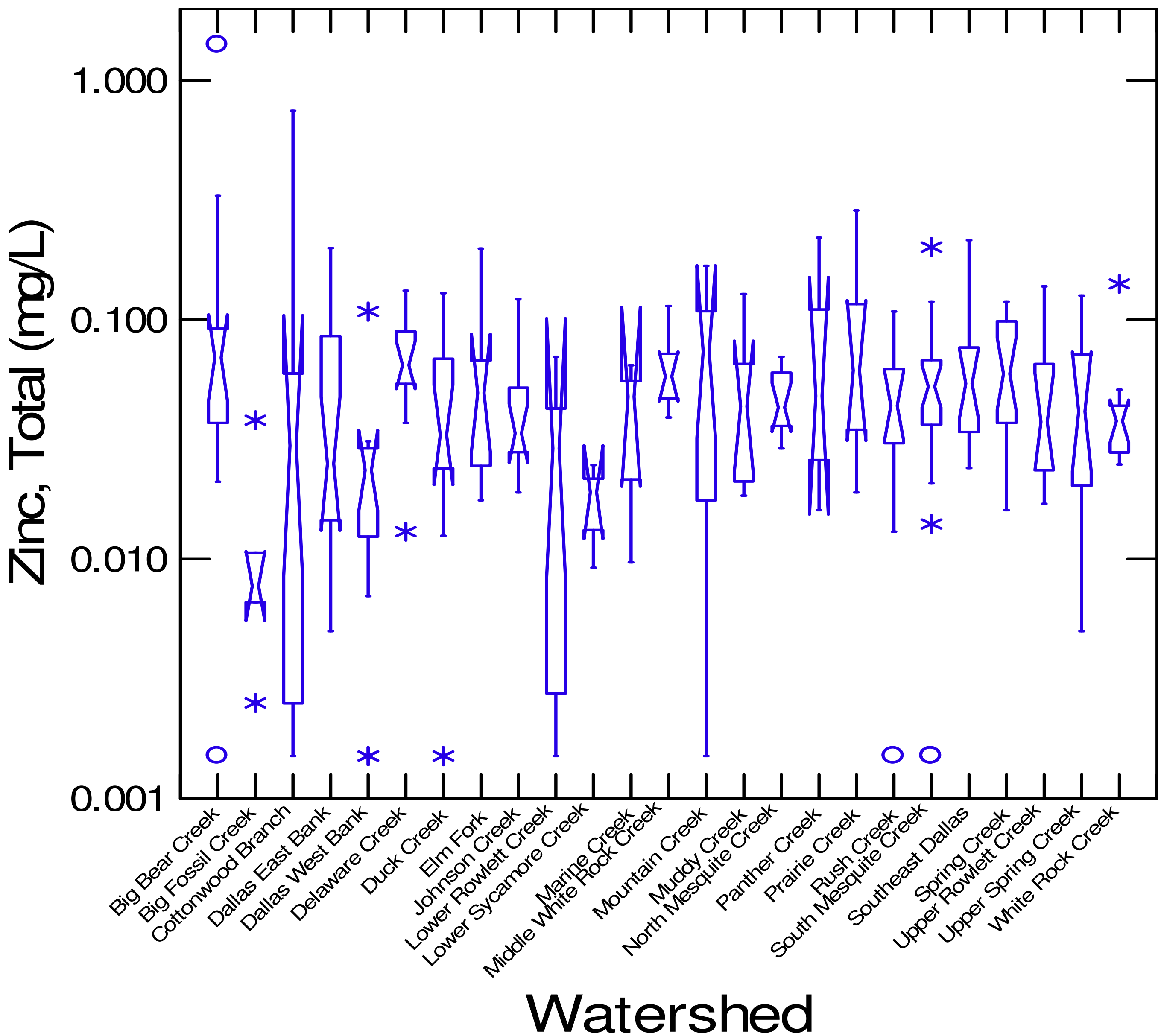
Total Coliforms (colonies/100 mL)
10,000,000
1,000,000
100,000
10,000
1,000
100
10
1
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



Total Dissolved Solids (mg/L)
1,000
100
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed



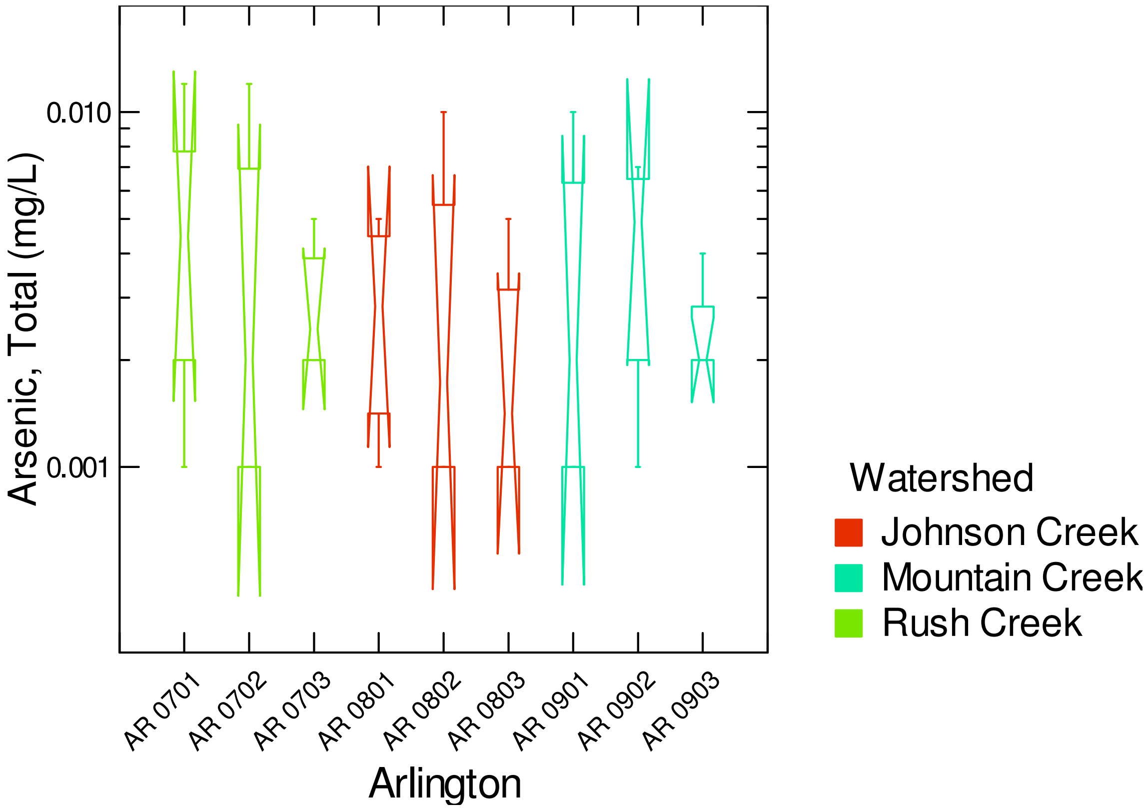
Total Suspended Solids (mg/L)
1,000
100
10
1
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed

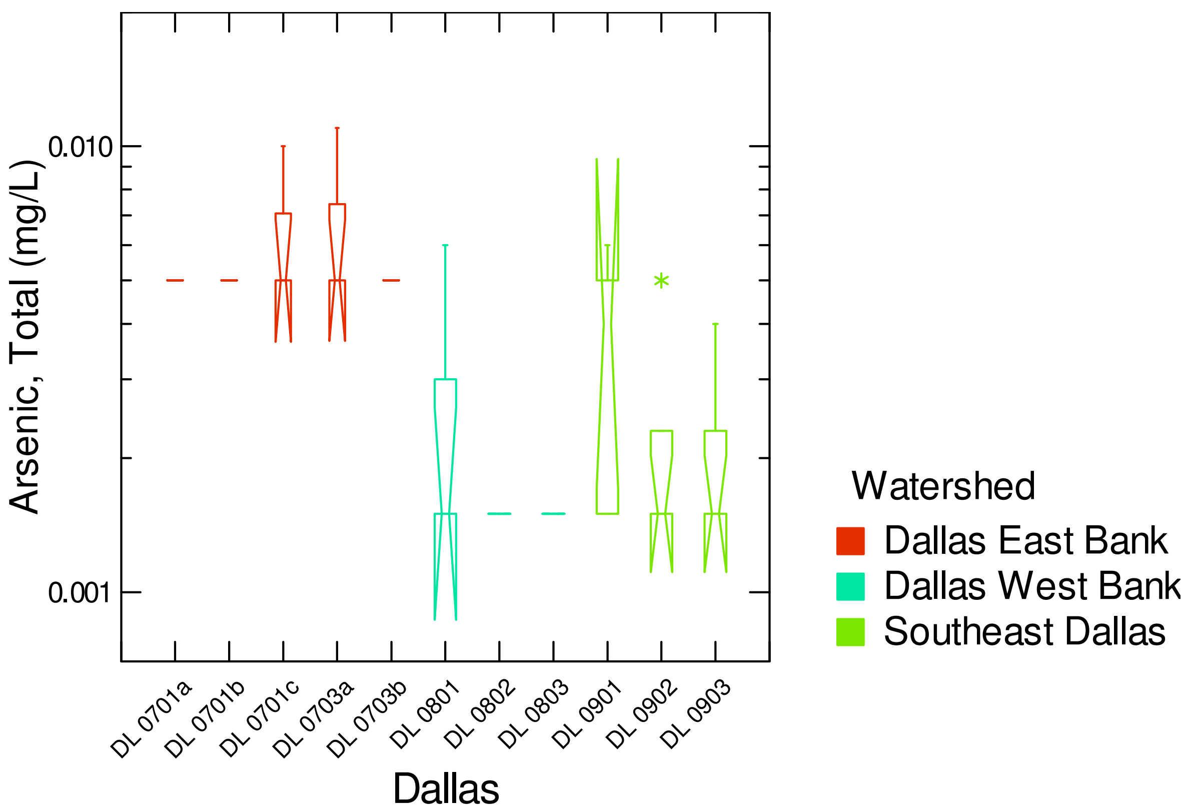


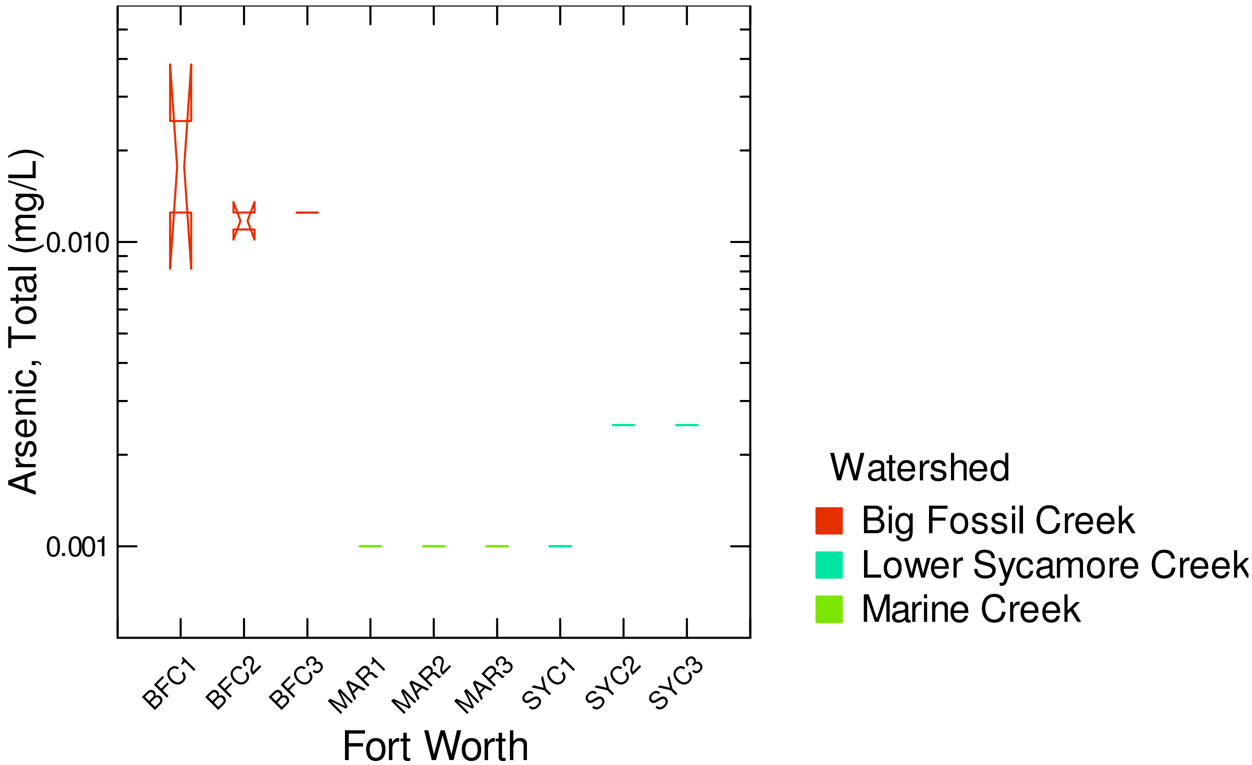
Zinc, Total (mg/L)
1.000
0.100
0.010
0.001
Big Bear Creek
Big Fossil Creek
Cottonwood Branch
Dallas East Bank
Dallas West Bank
Delaware Creek
Duck Creek
Elm Fork
Johnson Creek
Lower Rowlett Creek
Lower Sycamore Creek
Marine Creek
Middle White Rock Creek
Mountain Creek
Muddy Creek
North Mesquite Creek
Panther Creek
Prairie Creek
Rush Creek
South Mesquite Creek
Southeast Dallas
Spring Creek
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek
Watershed

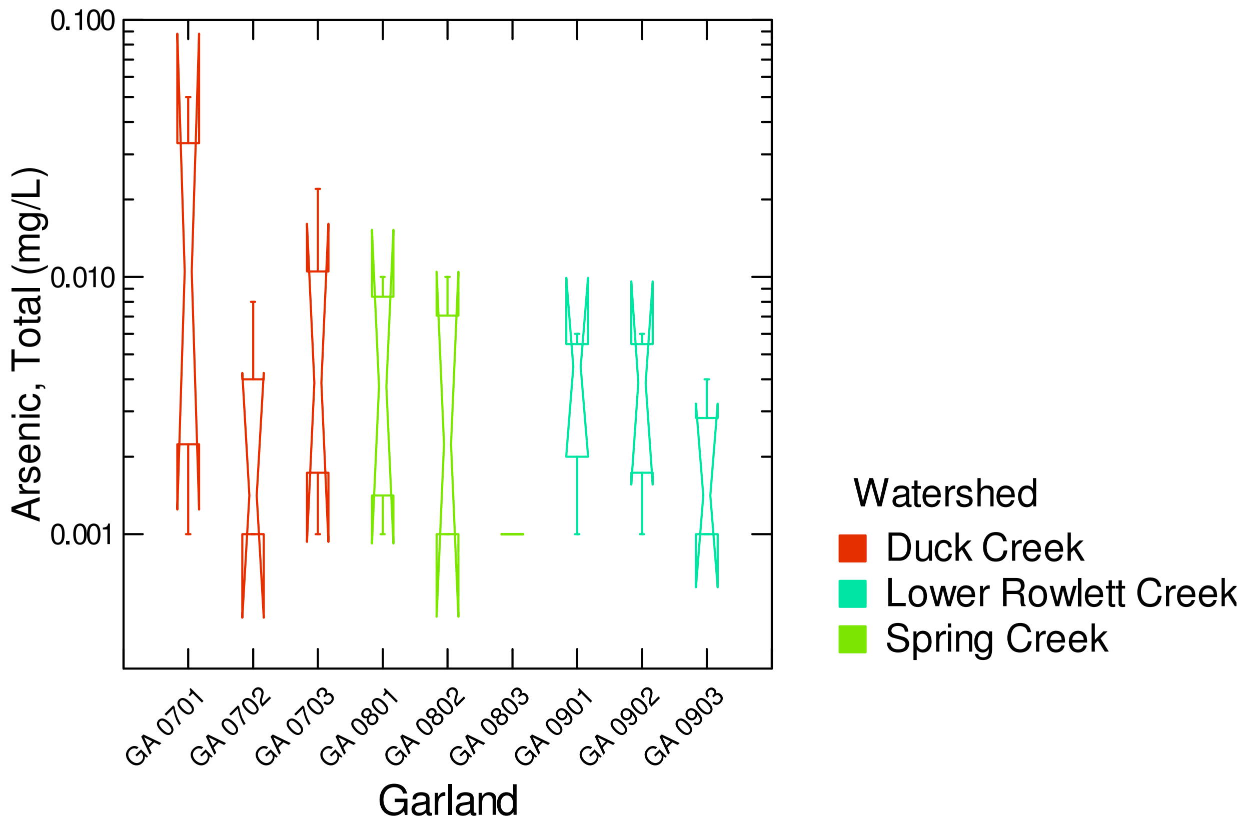
Appendix F

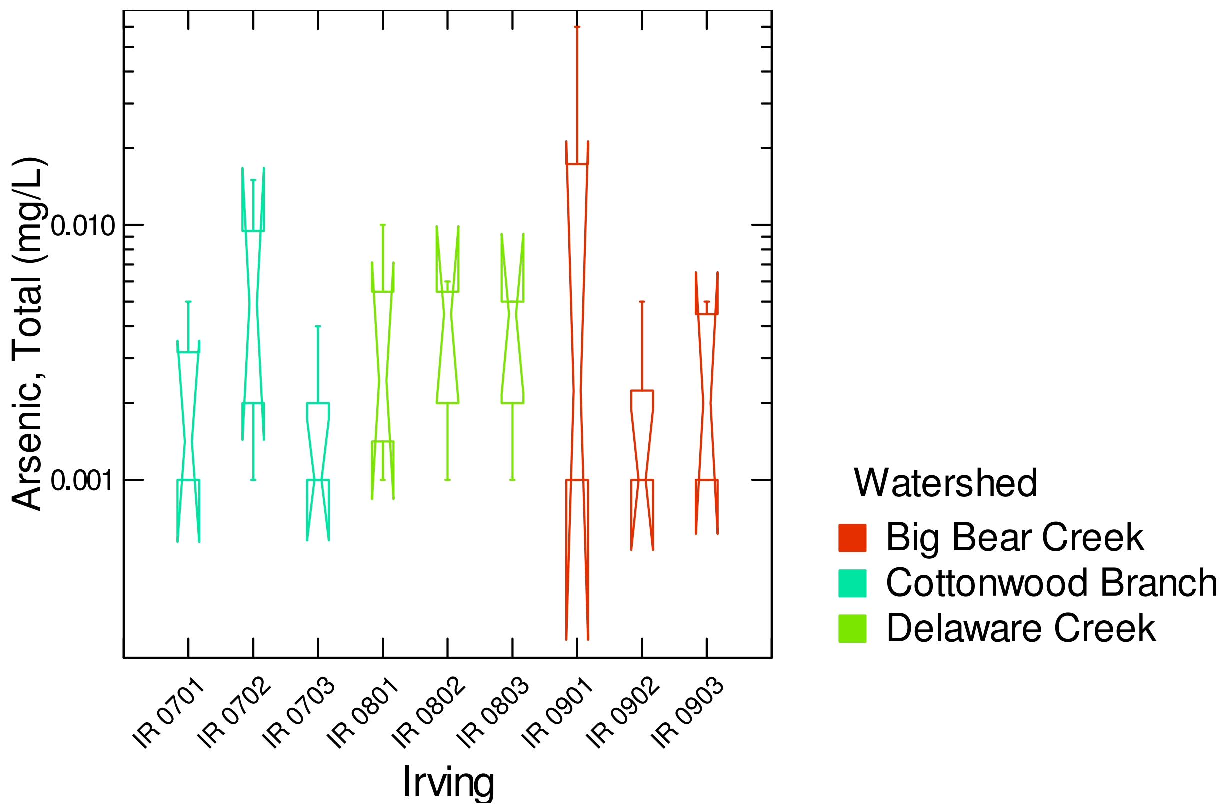
Box-Whisker Plots by Watershed and Entity


Arsenic, Total (mg/L)
0.010
0.001
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek

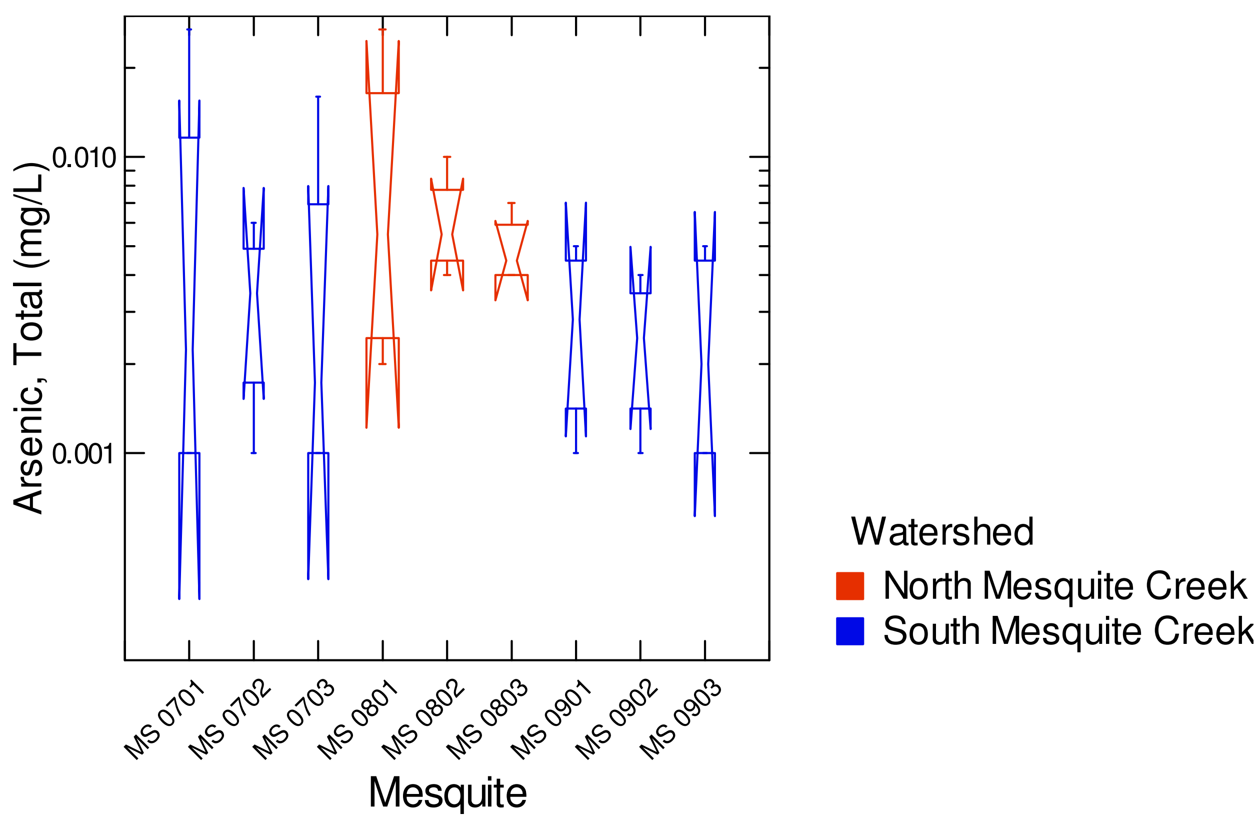

Arsenic, Total (mg/L)
0.010
0.001
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas


Arsenic, Total (mg/L)
0.010
0.001
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek

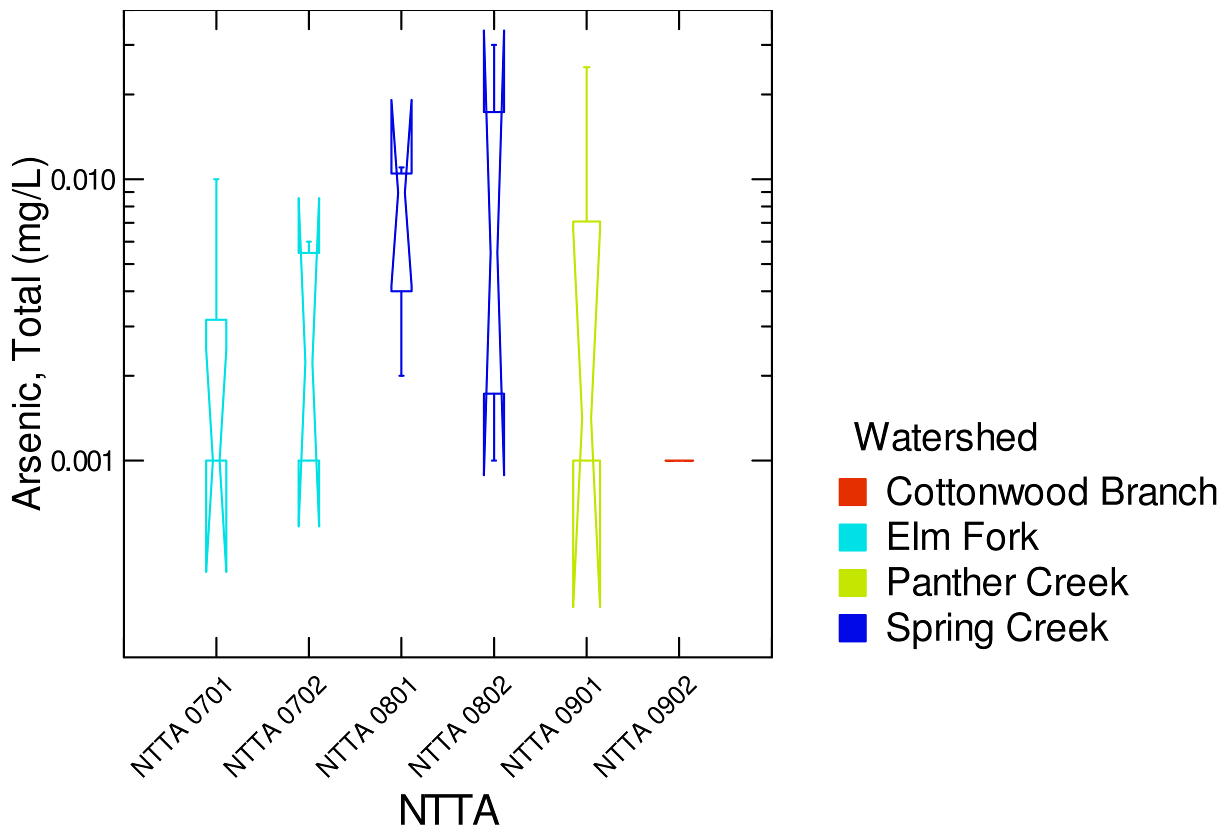

Arsenic, Total (mg/L)
0.100
0.010
0.001
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek

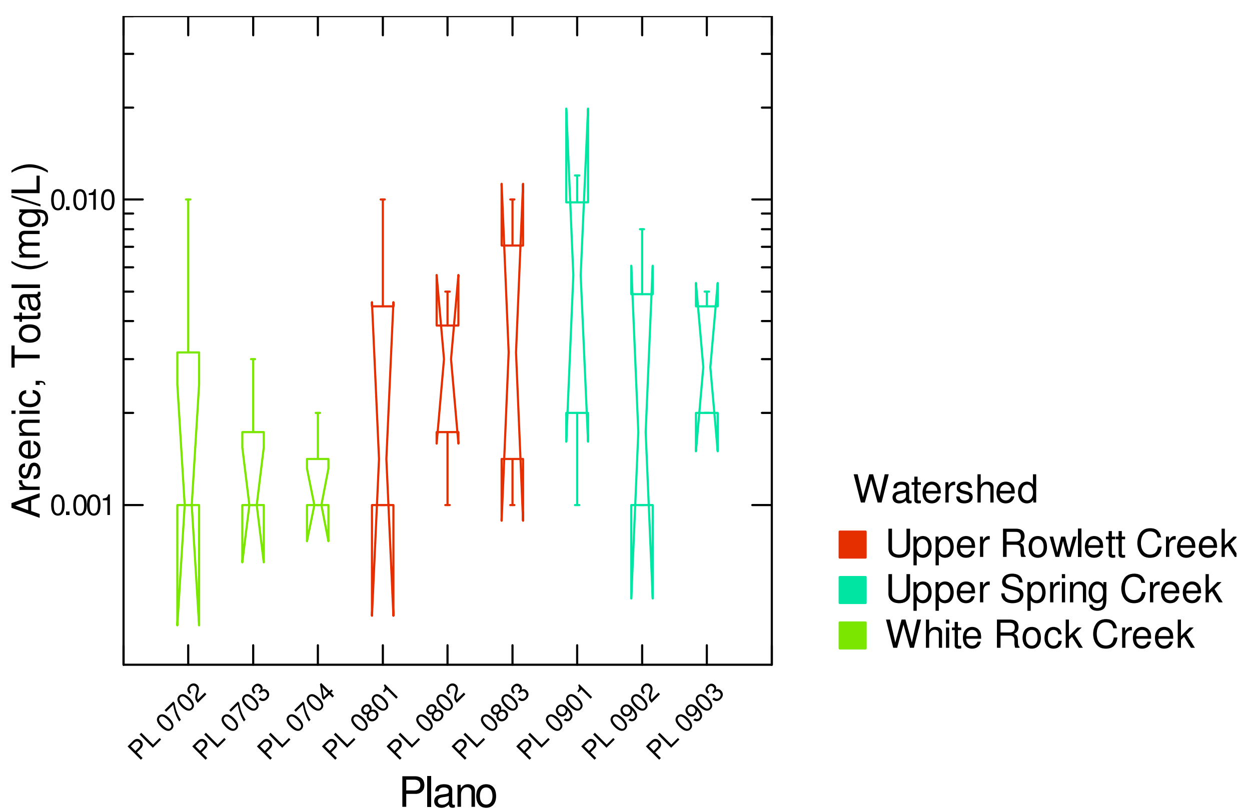


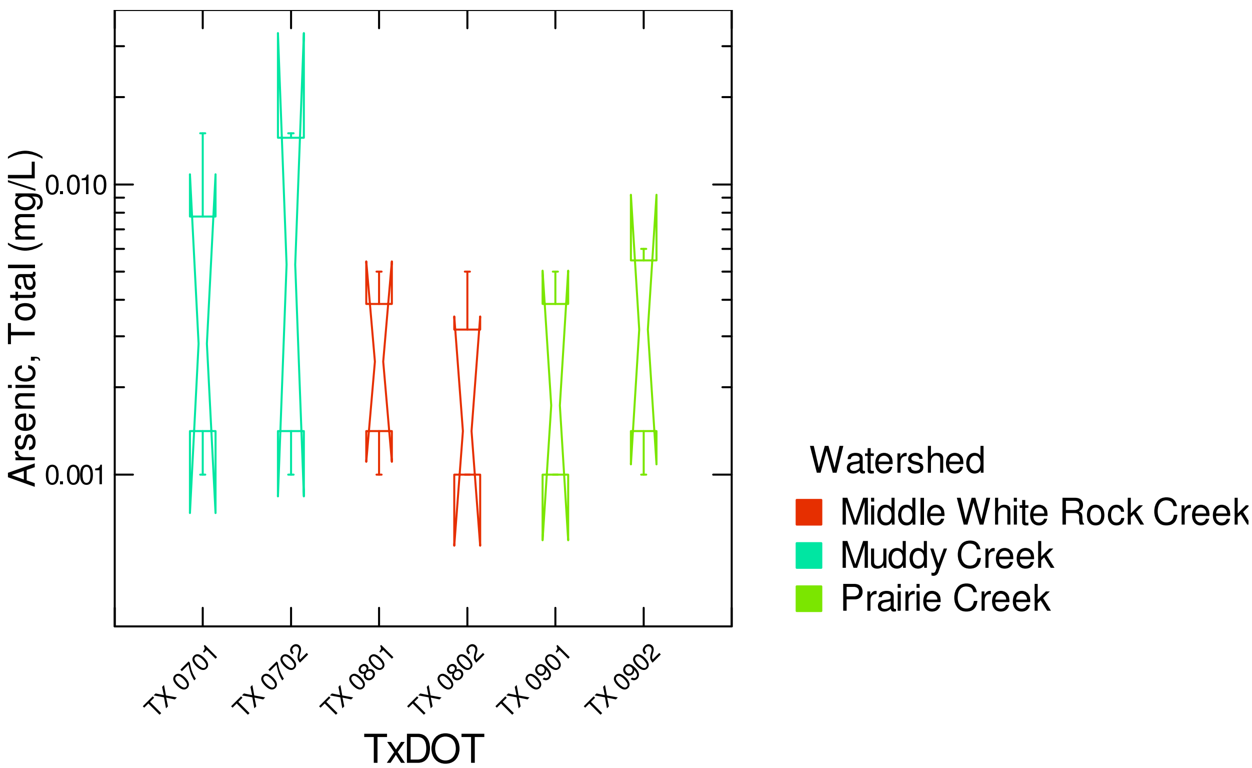
Arsenic, Total (mg/L)
0.010
0.001
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek



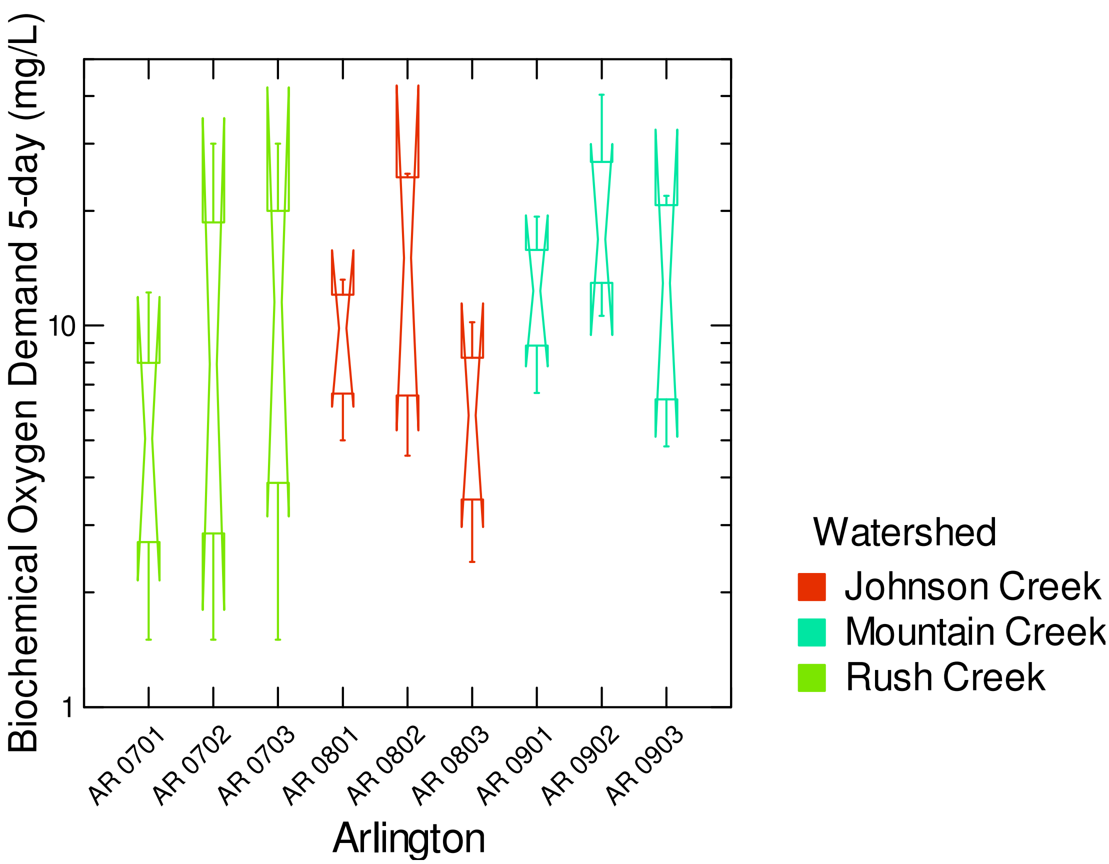
Arsenic, Total (mg/L)
0.010
0.001
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek


Arsenic, Total (mg/L)
0.010
0.001
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek

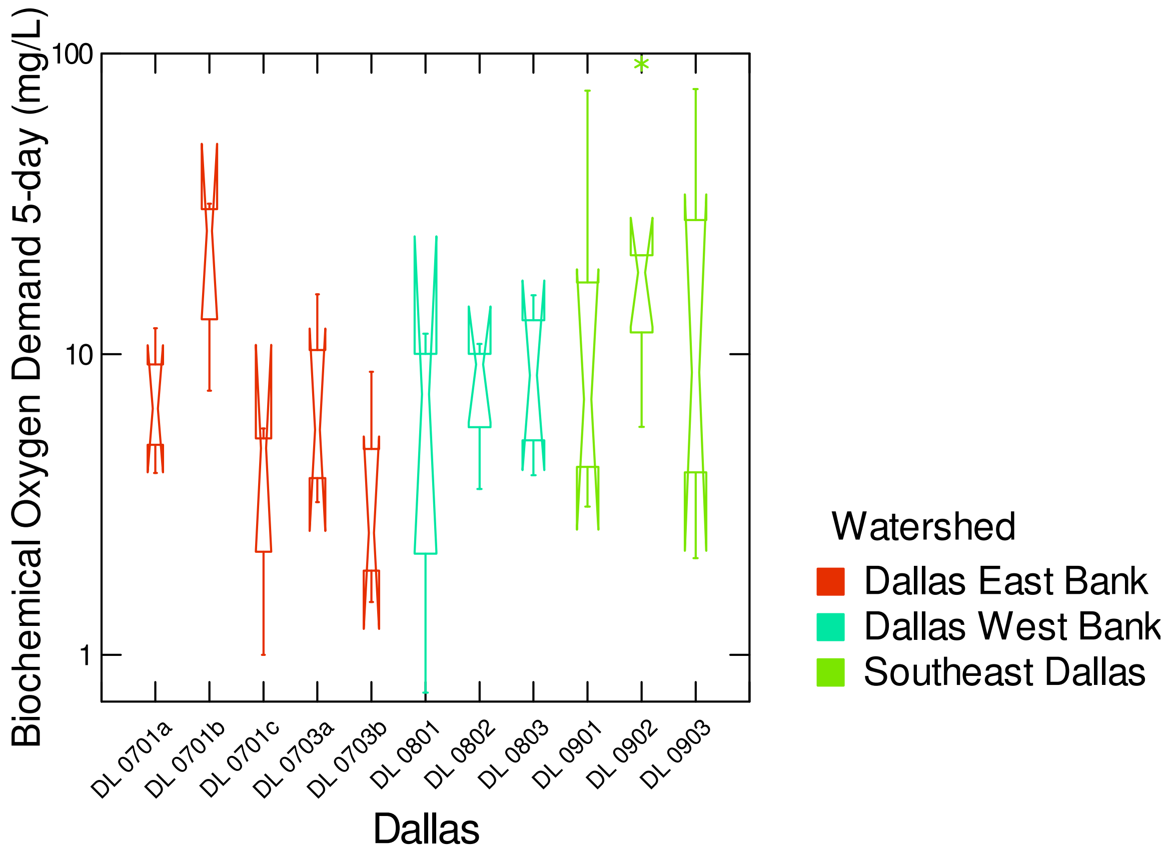

Arsenic, Total (mg/L)
0.010
0.001
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek



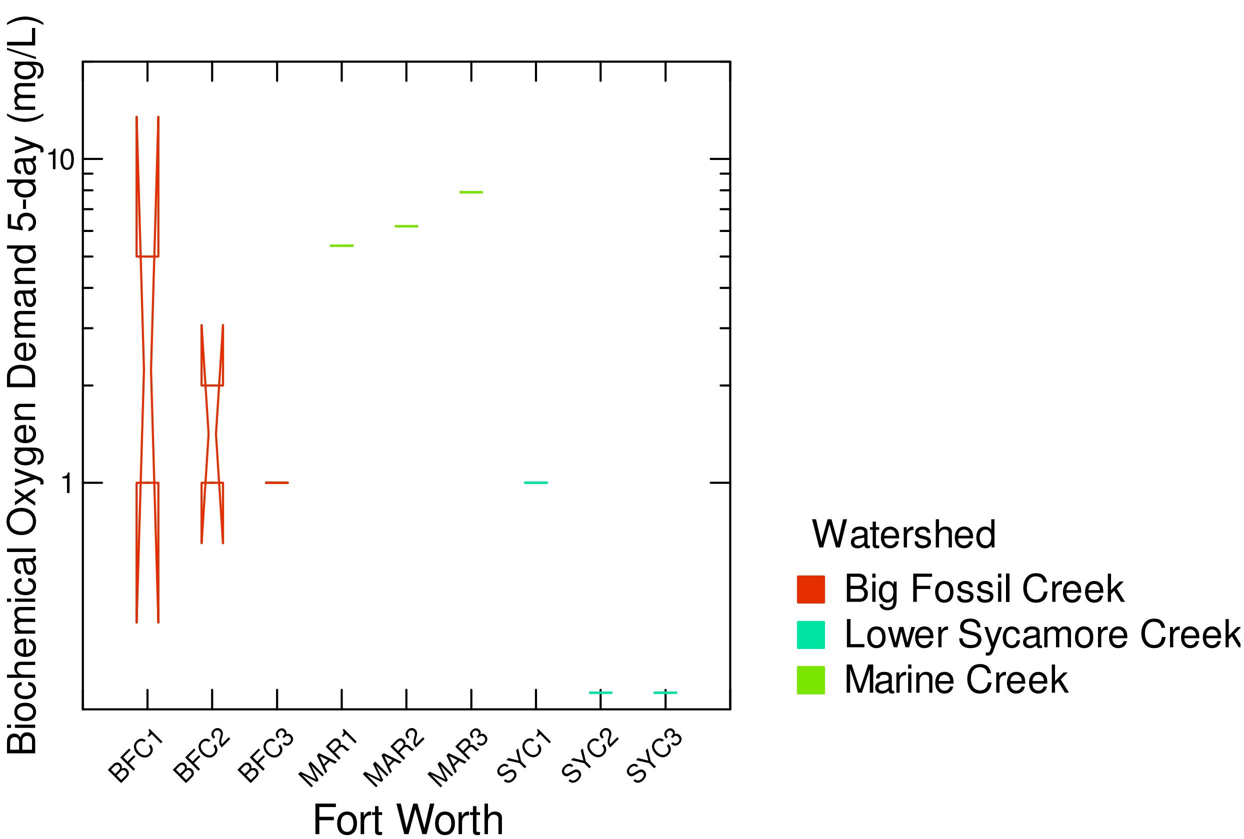
Arsenic, Total (mg/L)
0.010
0.001
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek



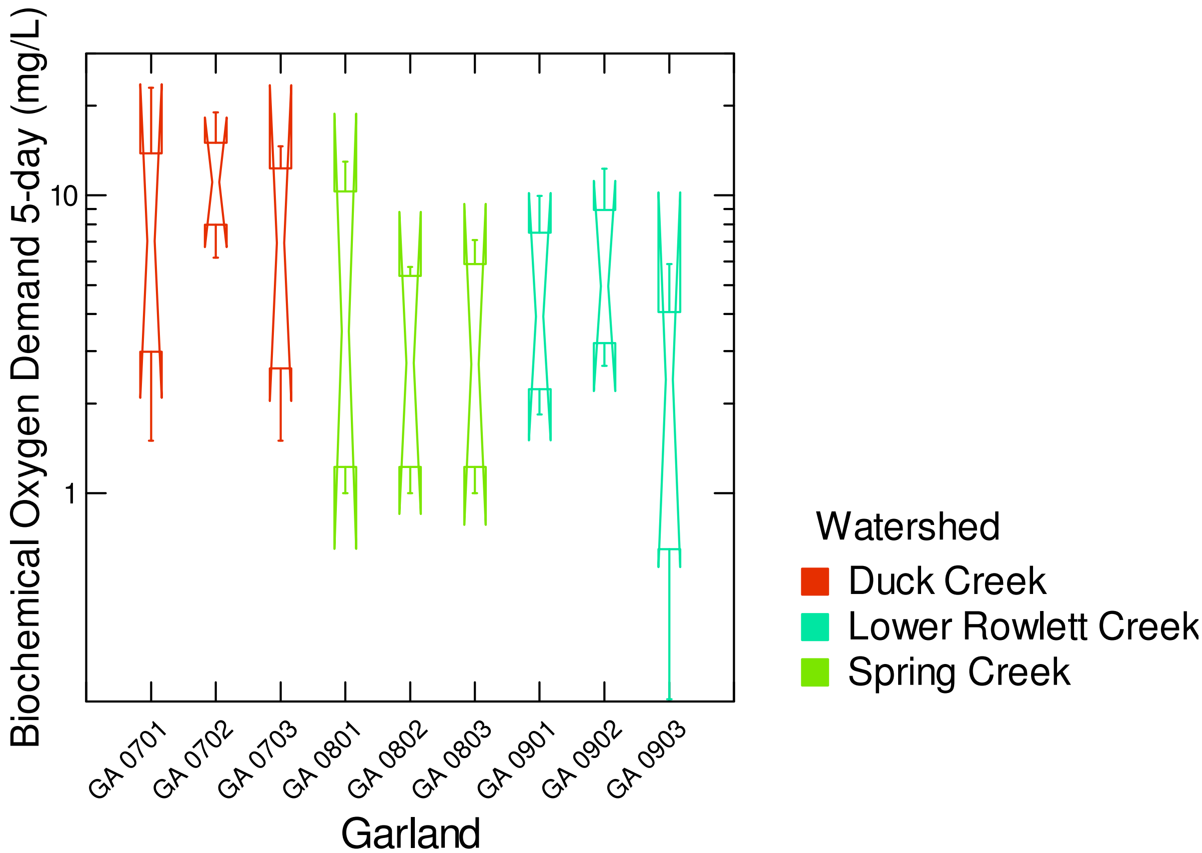
Biochemical Oxygen Demand 5-day (mg/L)
10
1
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek

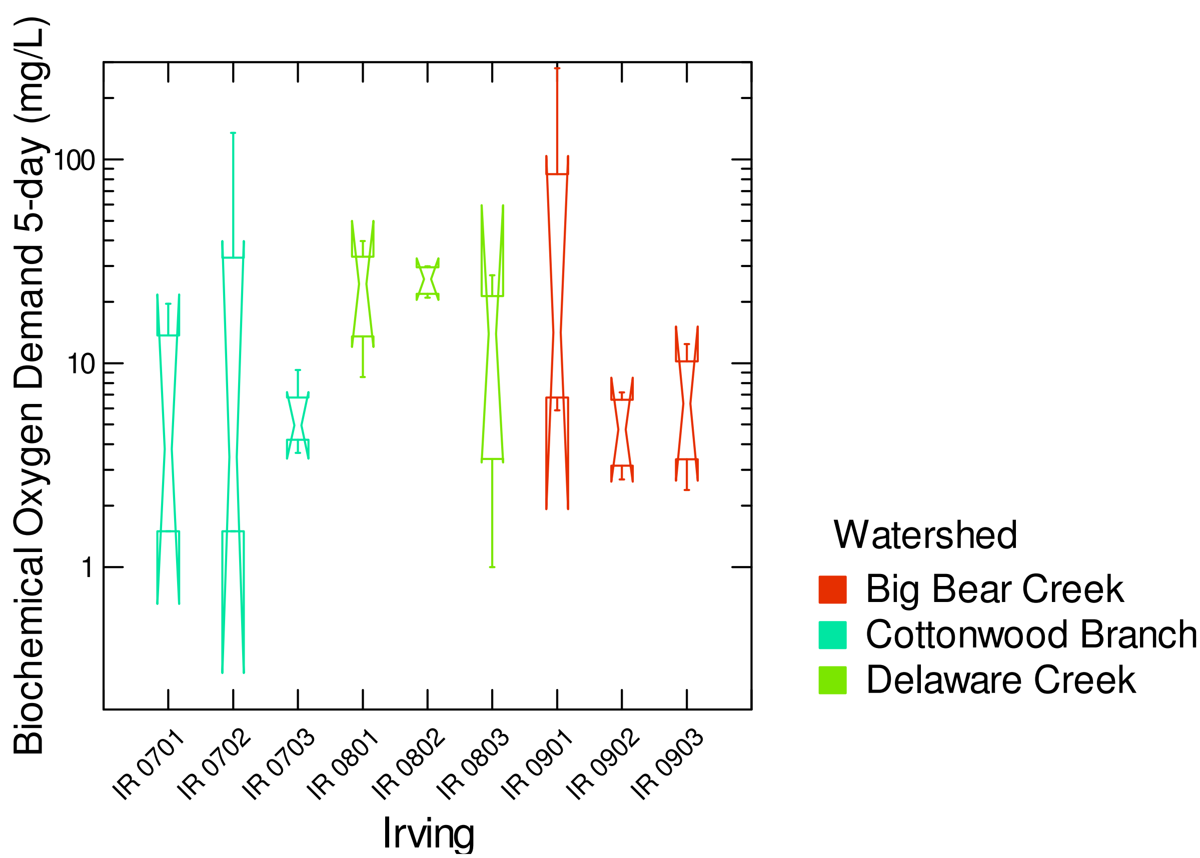


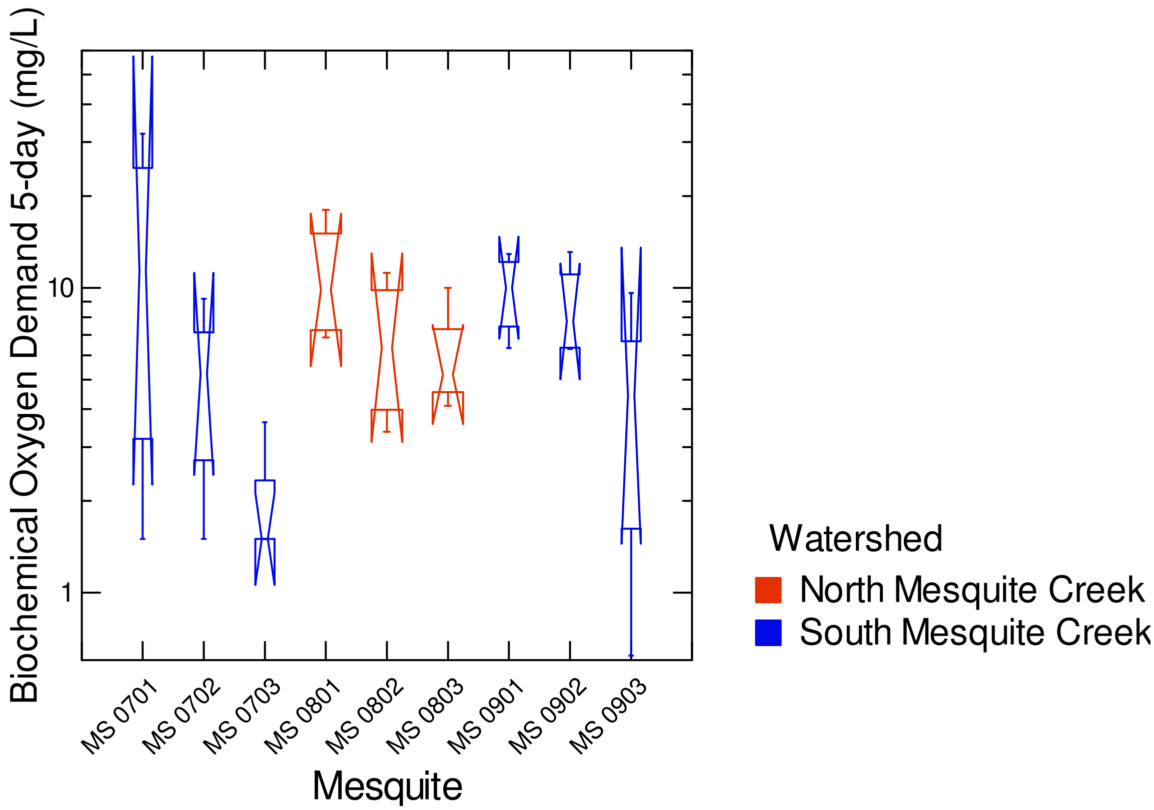
Biochemical Oxygen Demand 5-day (mg/L)
100
10
1
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas



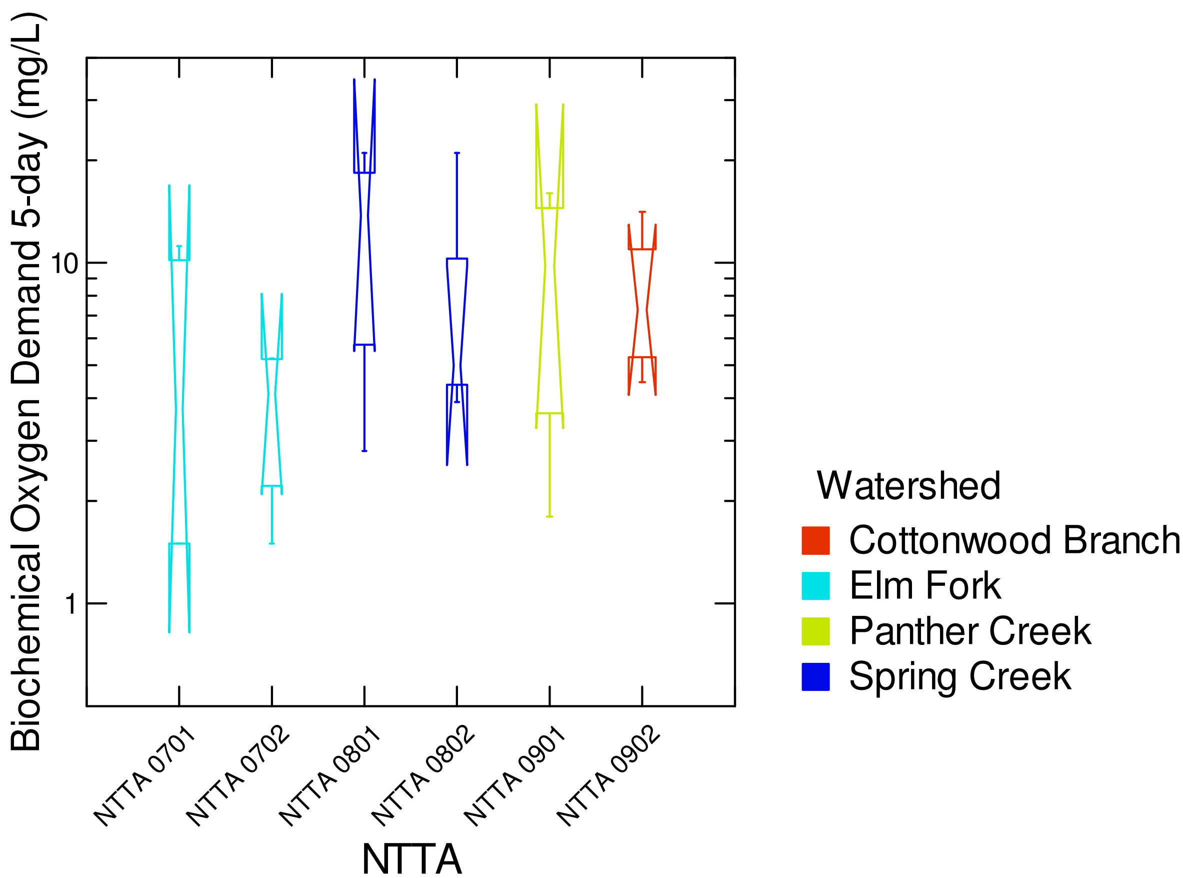
Biochemical Oxygen Demand 5-day (mg/L)
10
1
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek


Biochemical Oxygen Demand 5-day (mg/L)
10
1
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek

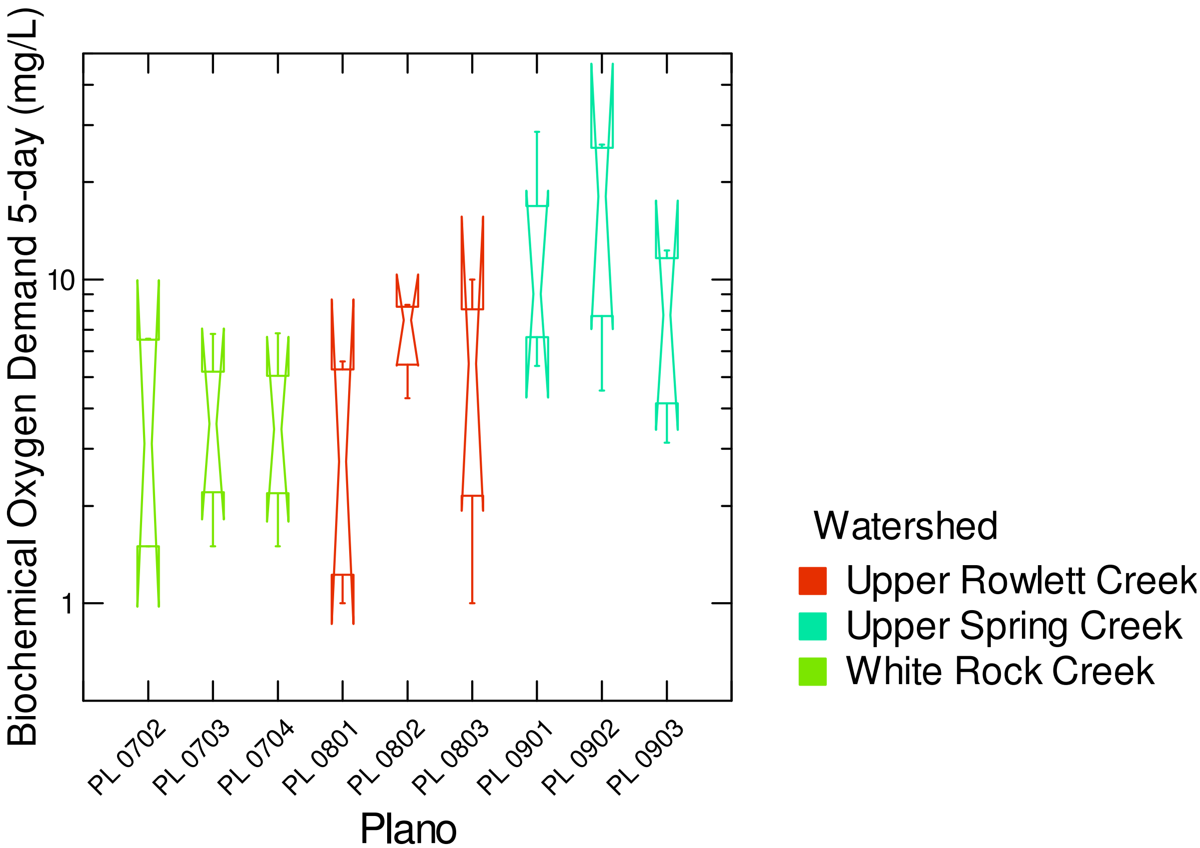

Biochemical Oxygen Demand 5-day (mg/L)
100
10
1
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek



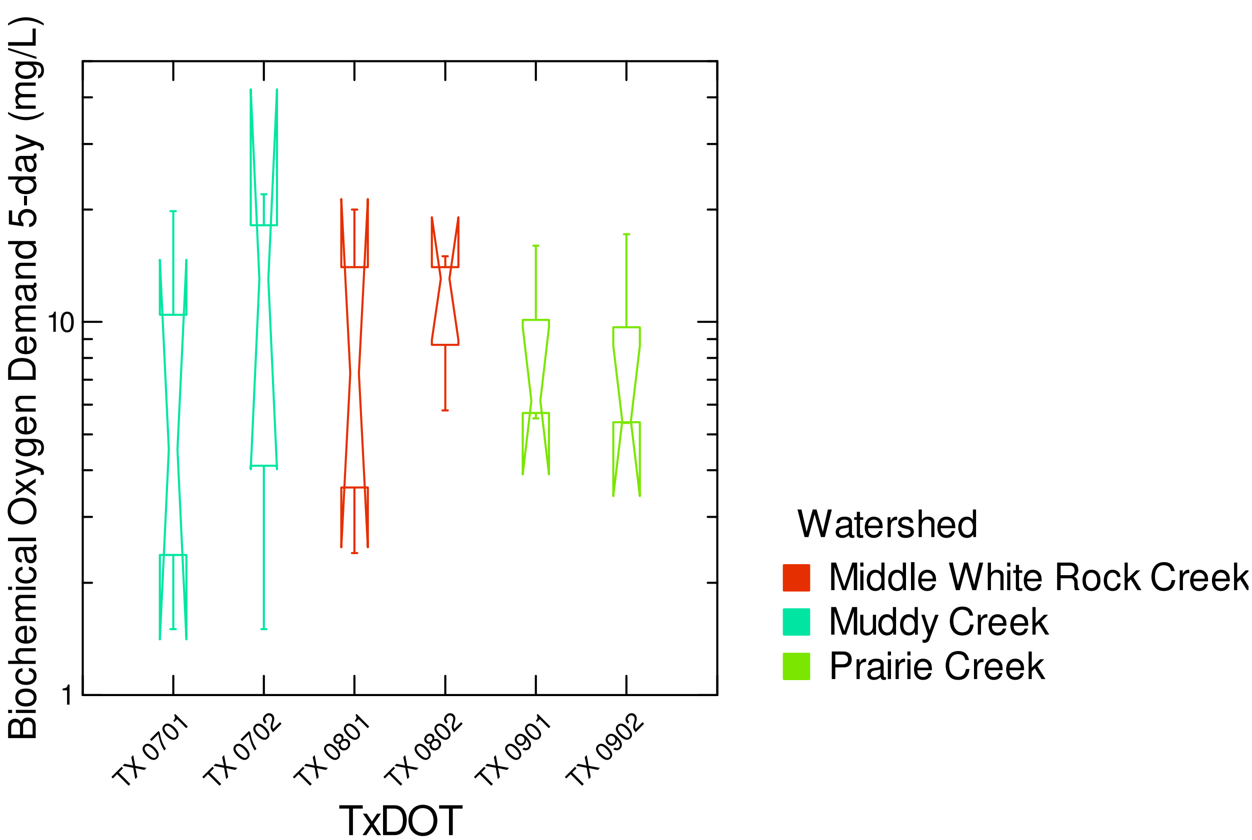
Biochemical Oxygen Demand 5-day (mg/L)
10
1
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek



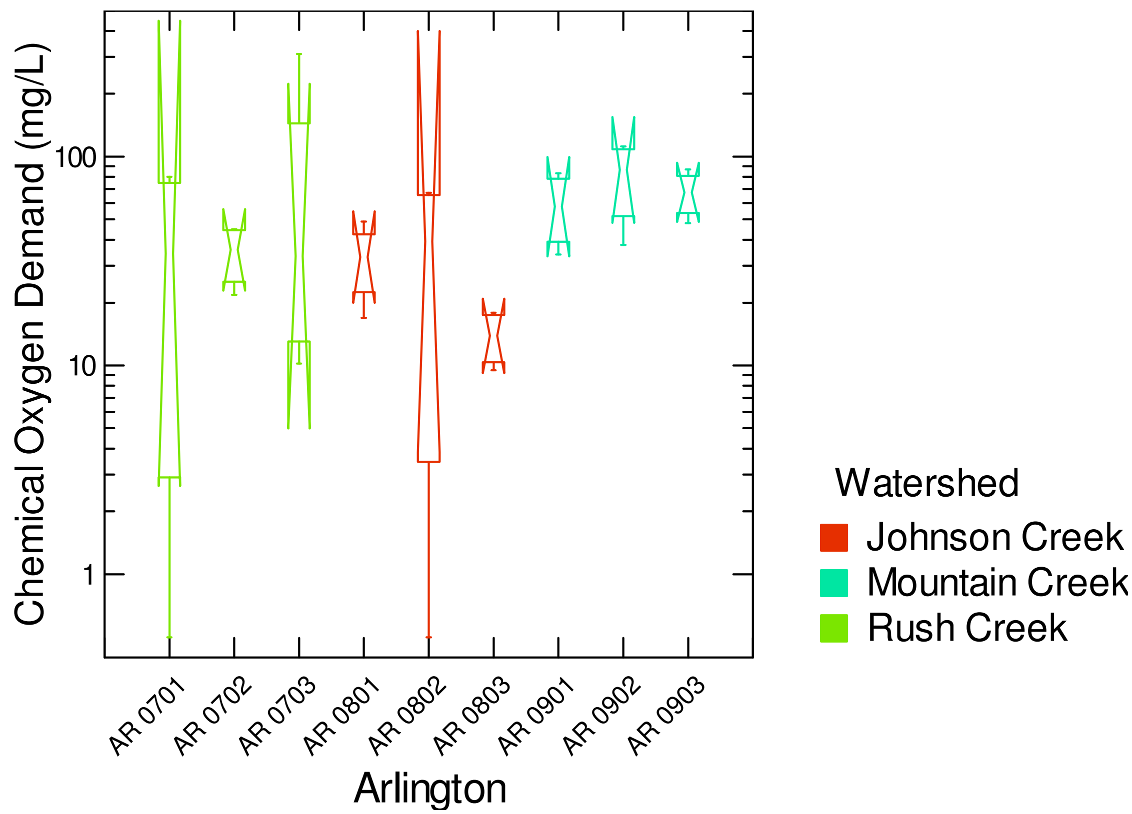
Biochemical Oxygen Demand 5-day (mg/L)
10
1
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek

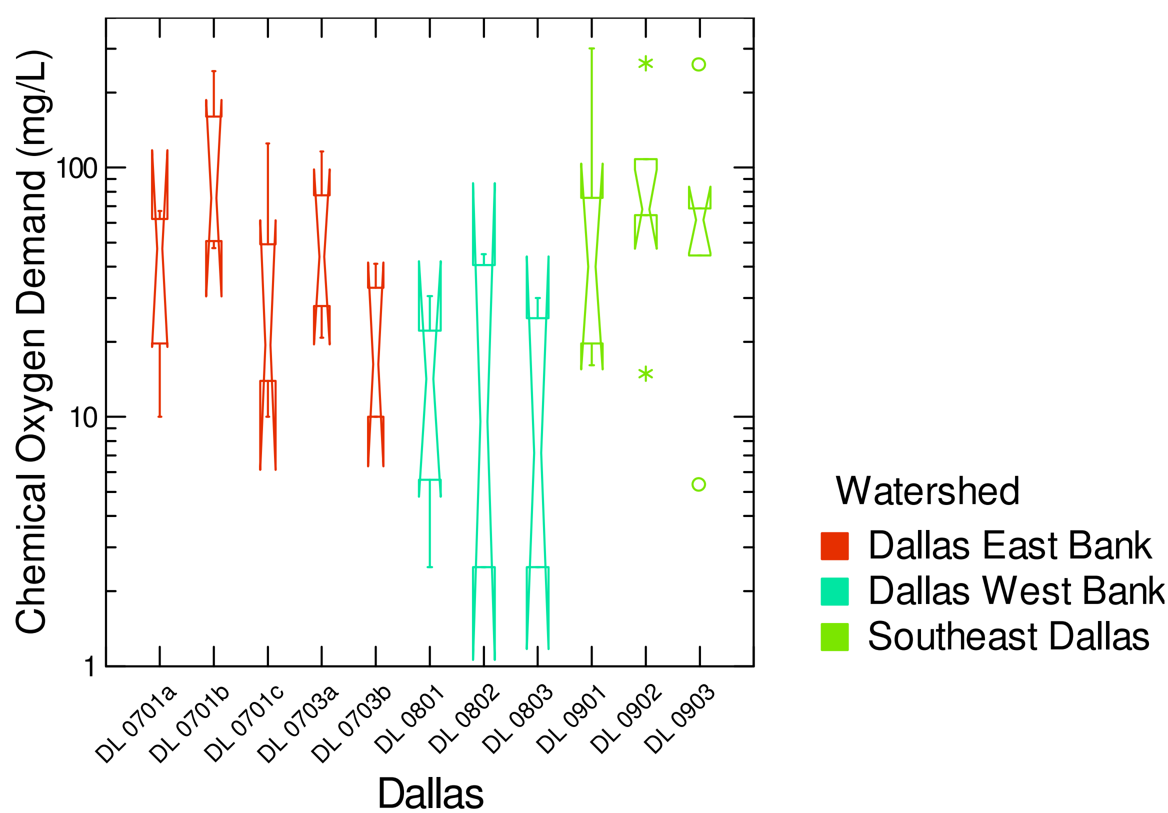


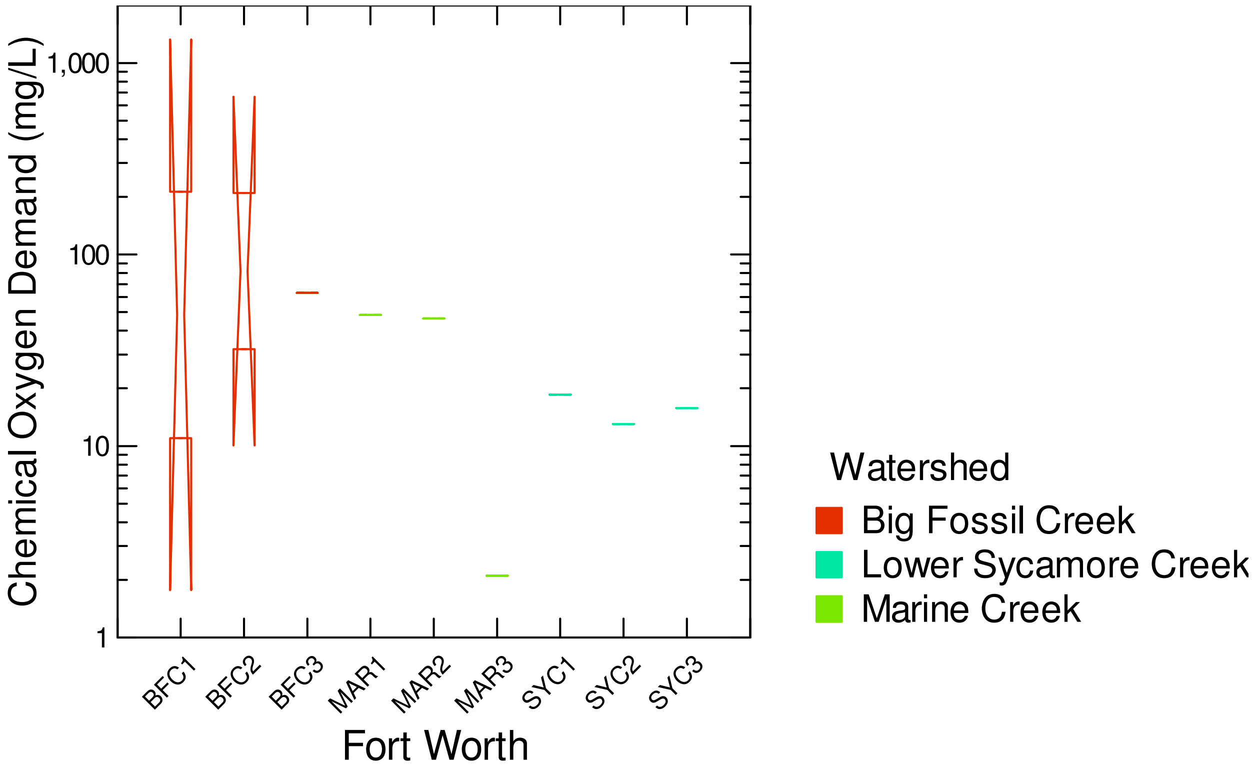
Biochemical Oxygen Demand 5-day (mg/L)
10
1
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek

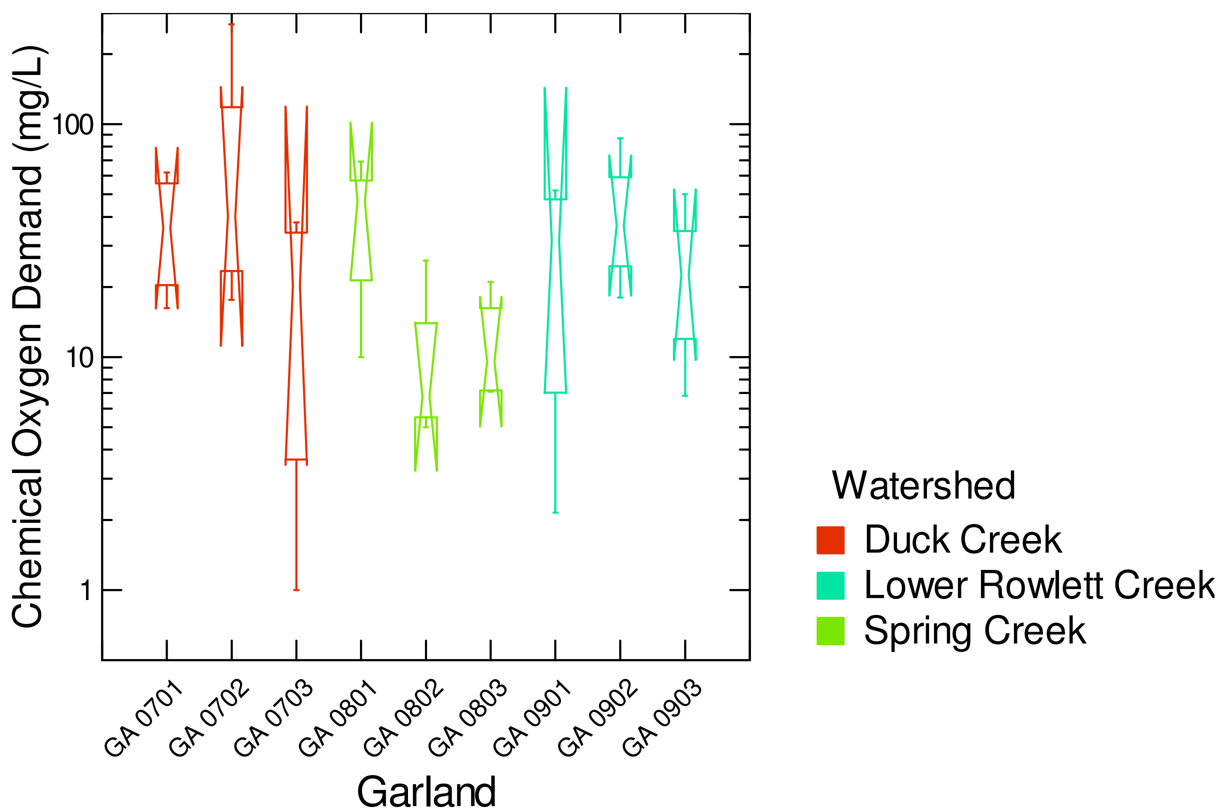


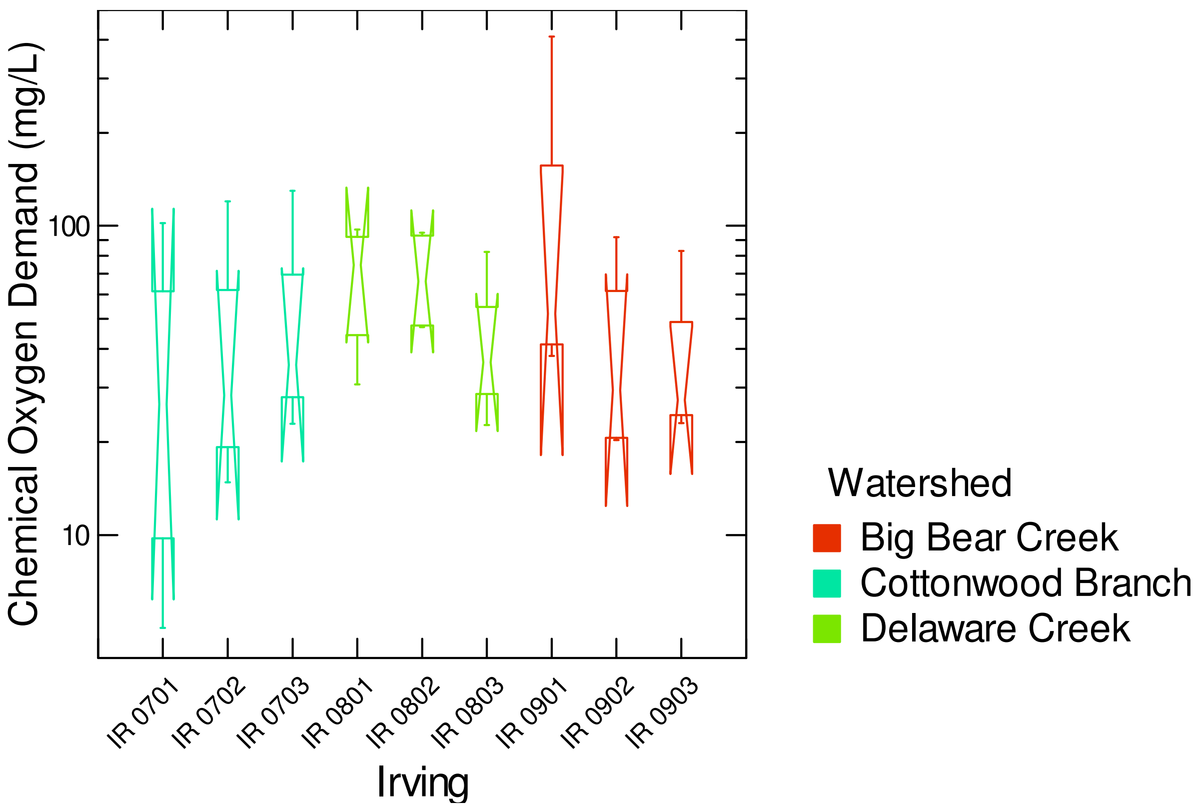
Biochemical Oxygen Demand 5-day (mg/L)
10
1
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek


Chemical Oxygen Demand (mg/L)
100
10
1
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek

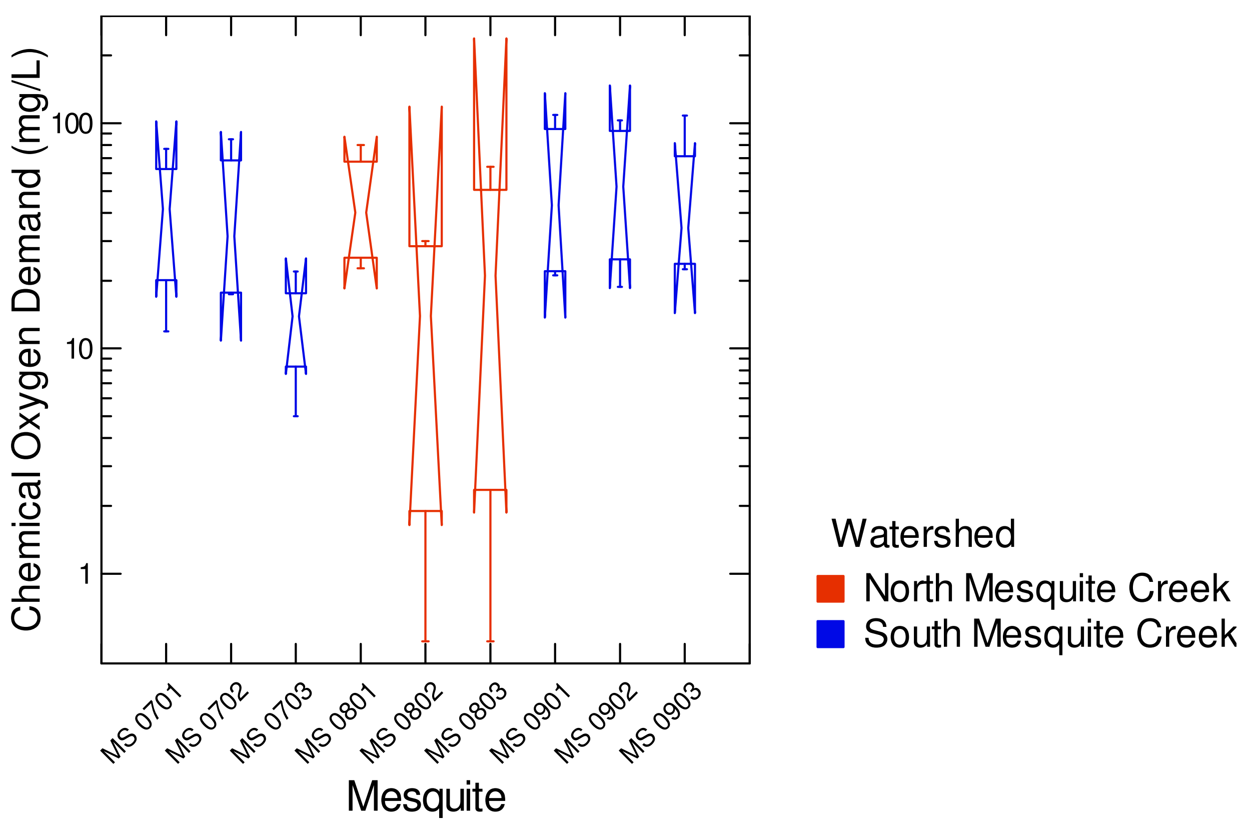

Chemical Oxygen Demand (mg/L)
100
10
1
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas


Chemical Oxygen Demand (mg/L)
1,000
100
10
1
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek

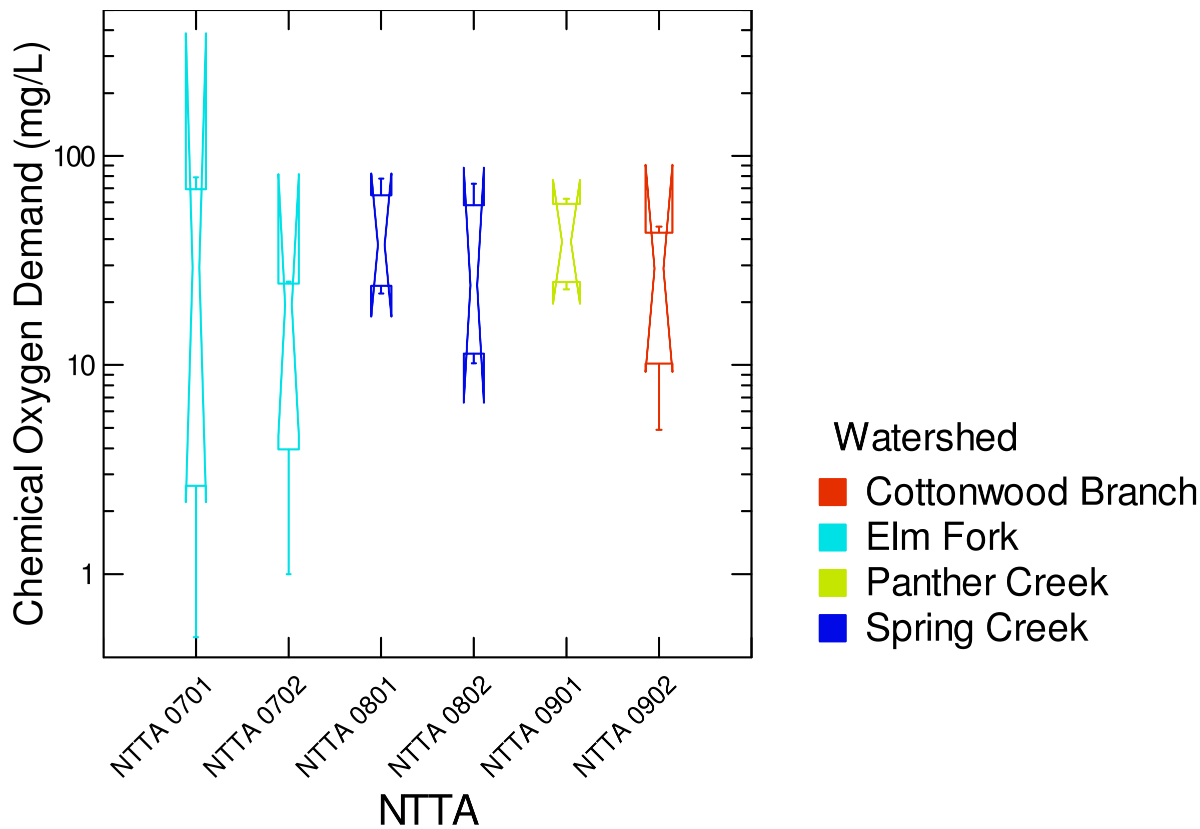

Chemical Oxygen Demand (mg/L)
100
10
1
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek



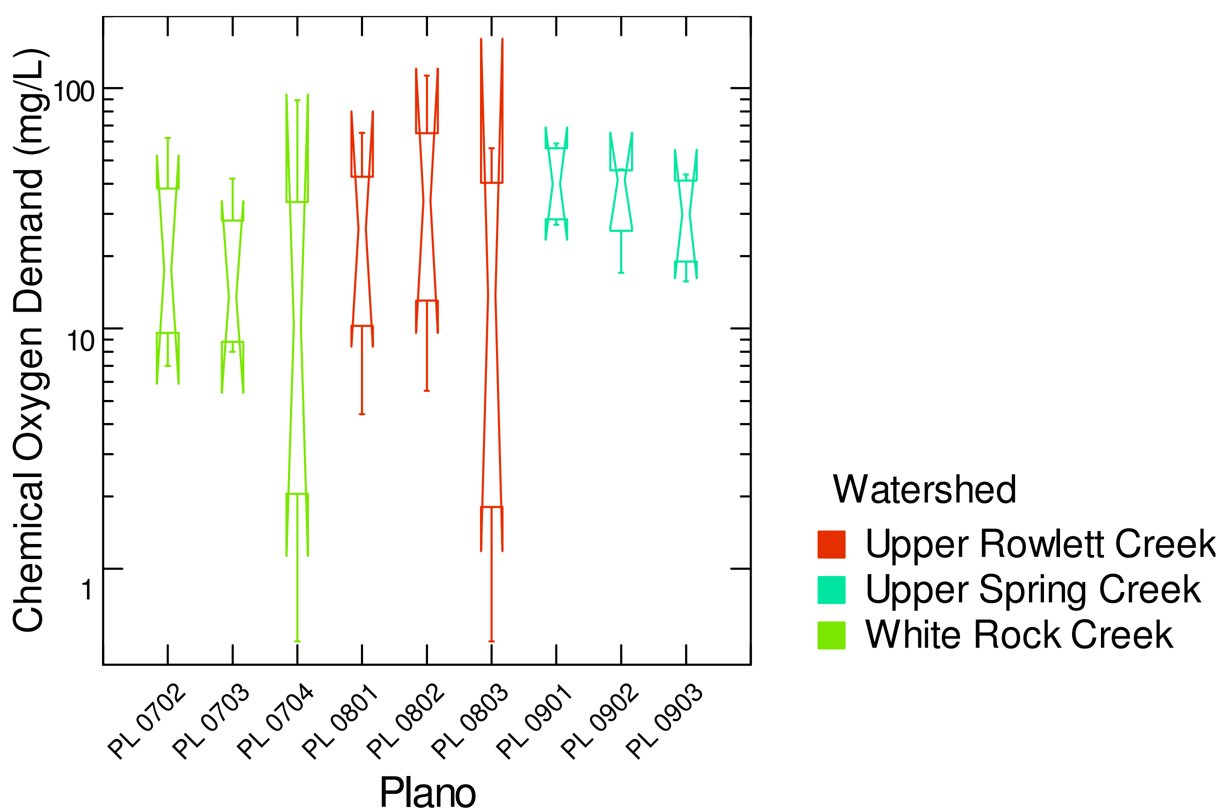
Chemical Oxygen Demand (mg/L)
100
10
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek



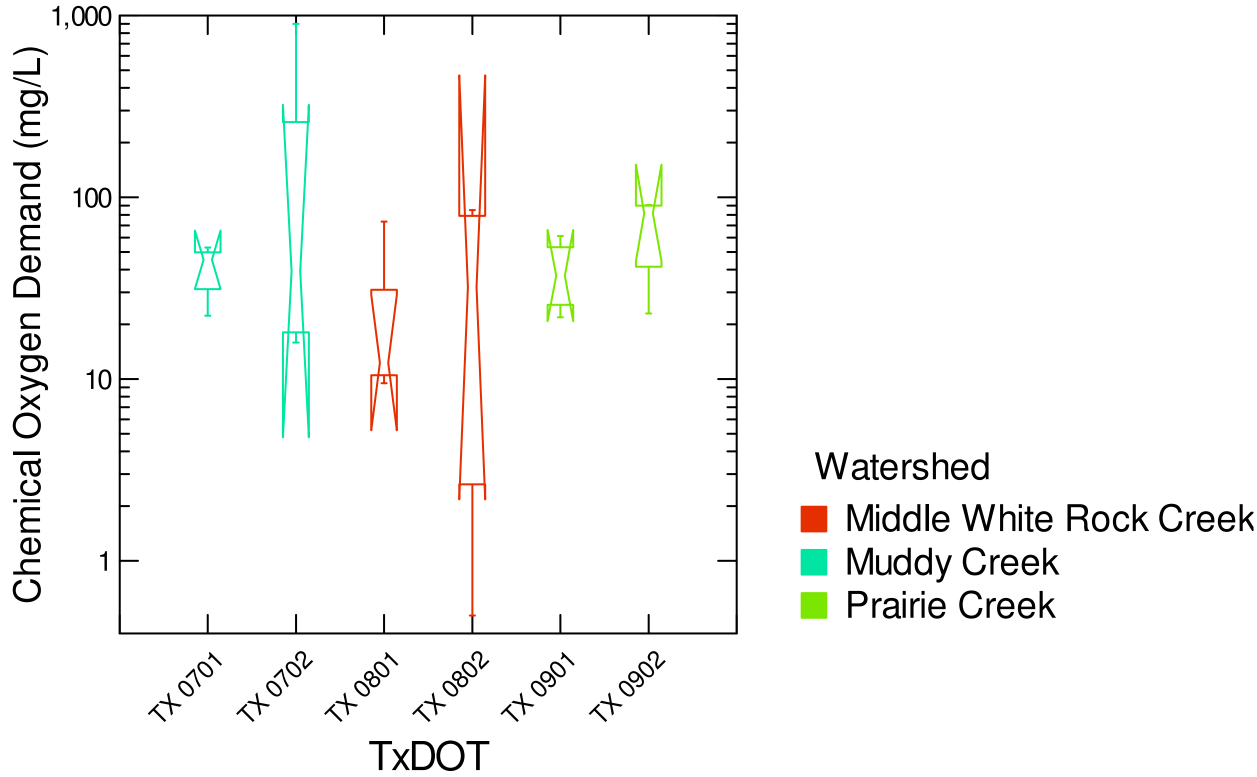
Chemical Oxygen Demand (mg/L)
100
10
1
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek



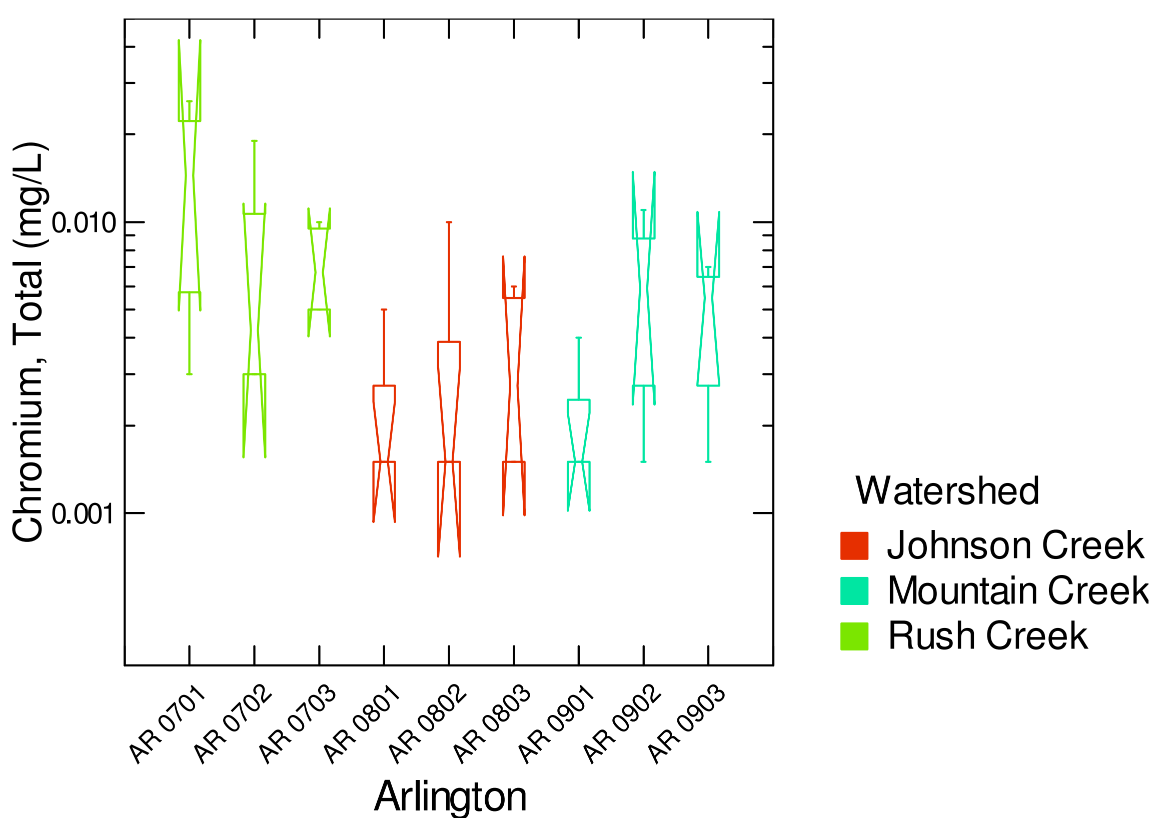
Chemical Oxygen Demand (mg/L)
100
10
1
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek



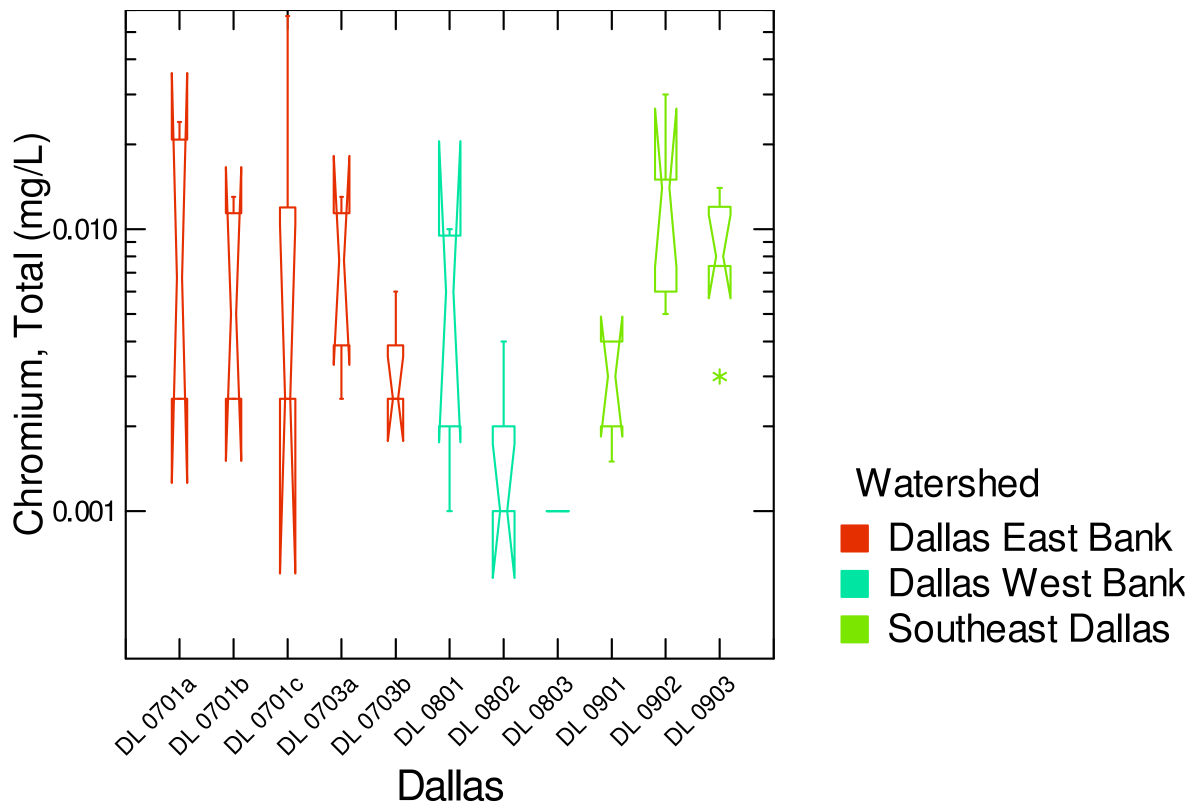
Chemical Oxygen Demand (mg/L)
100
10
1
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek



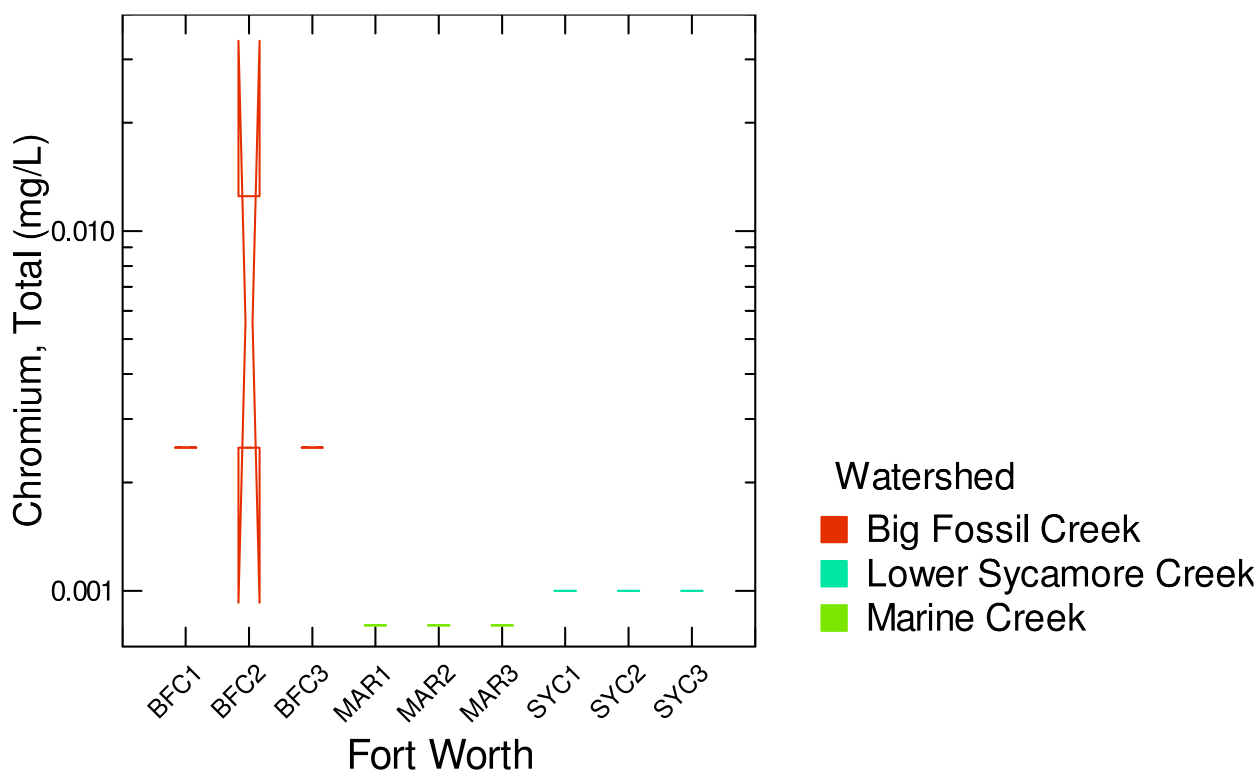
Chemical Oxygen Demand (mg/L)
1,000
100
10
1
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek



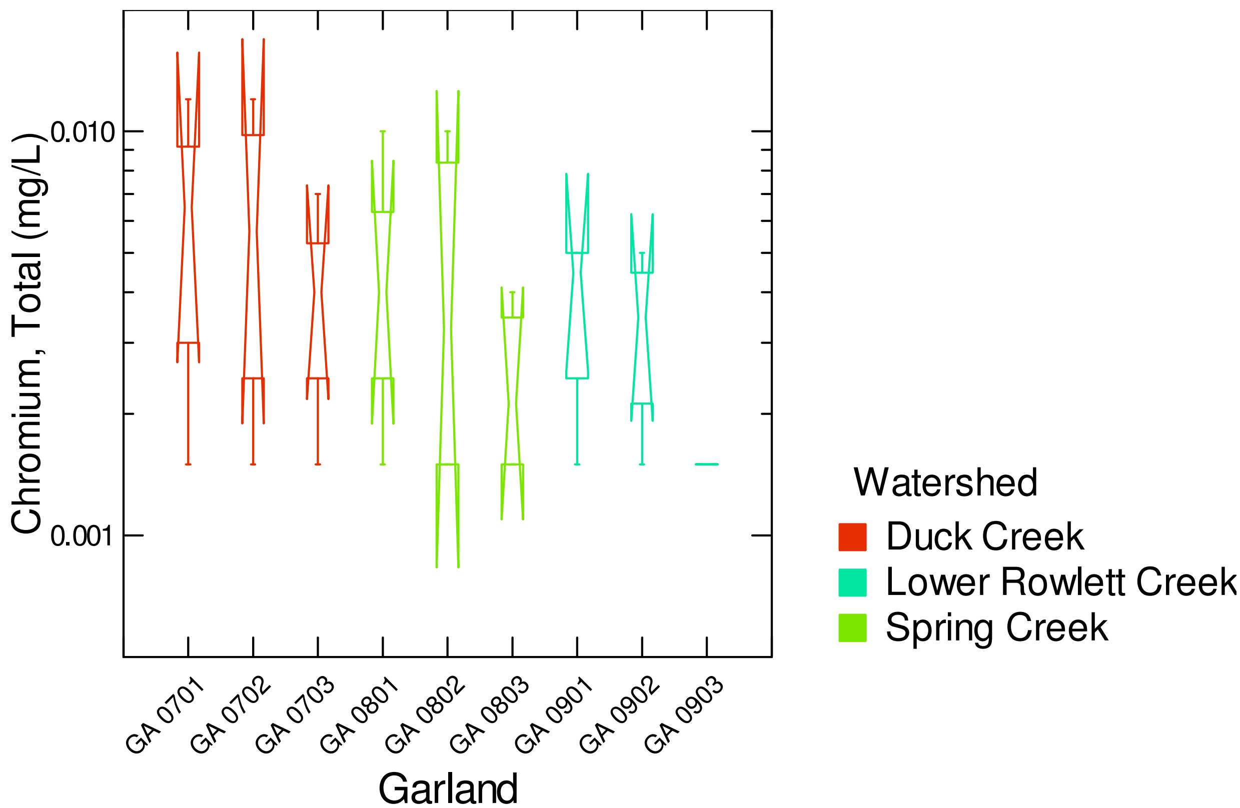
Chromium, Total (mg/L)
0.010
0.001
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek



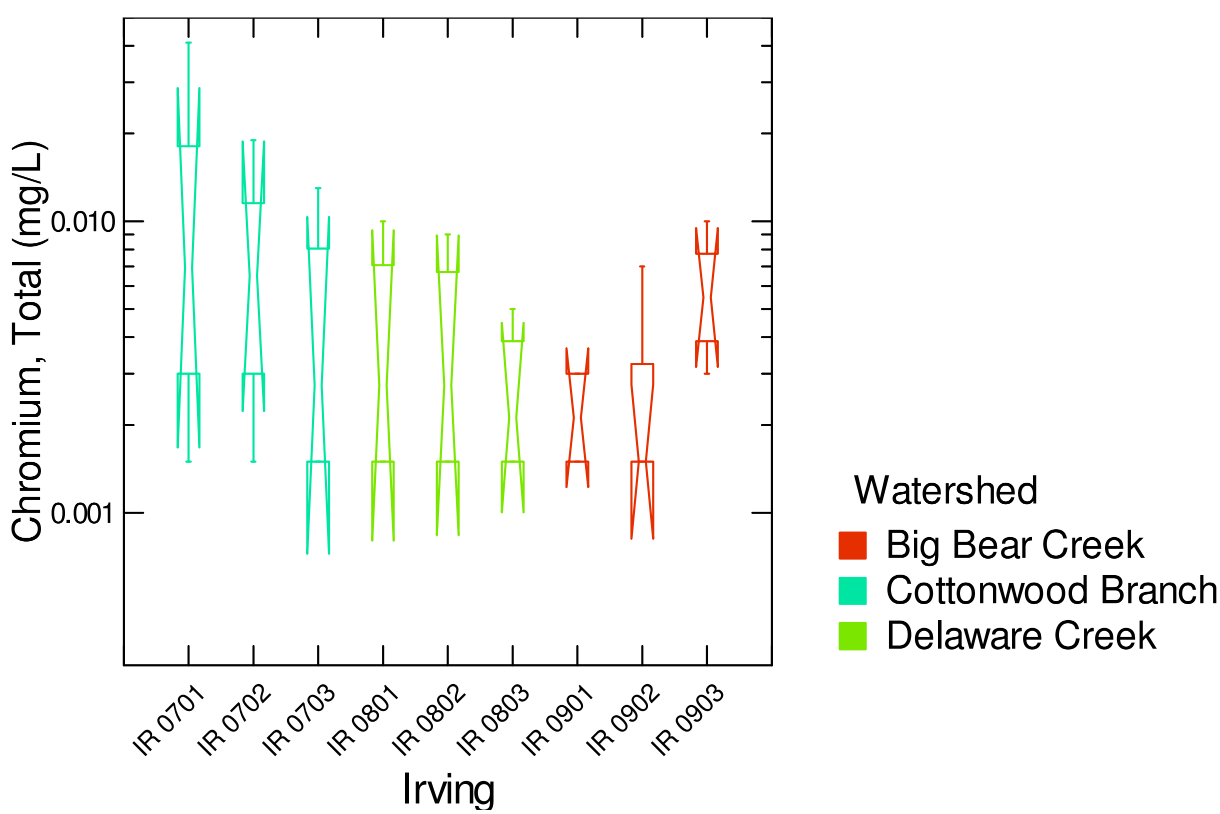
Chromium, Total (mg/L)
0.010
0.001
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas



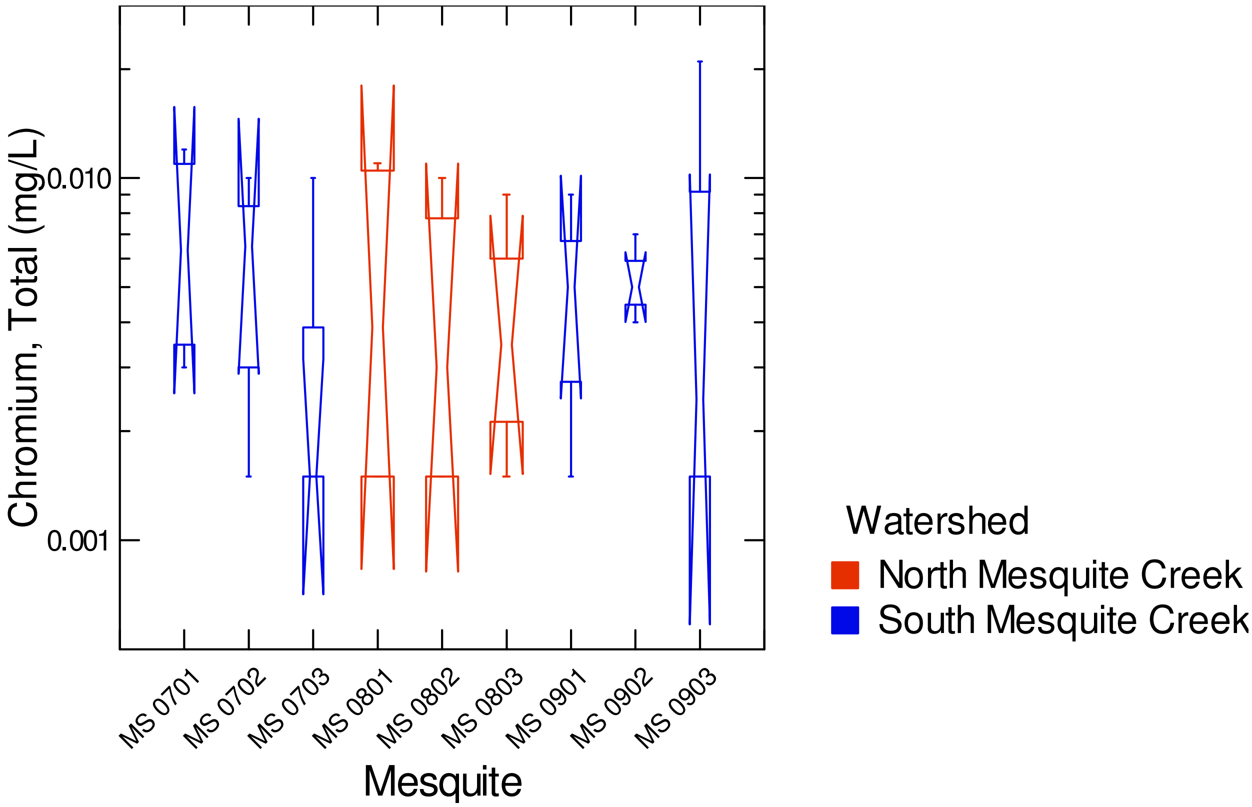
Chromium, Total (mg/L)
0.010
0.001
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek



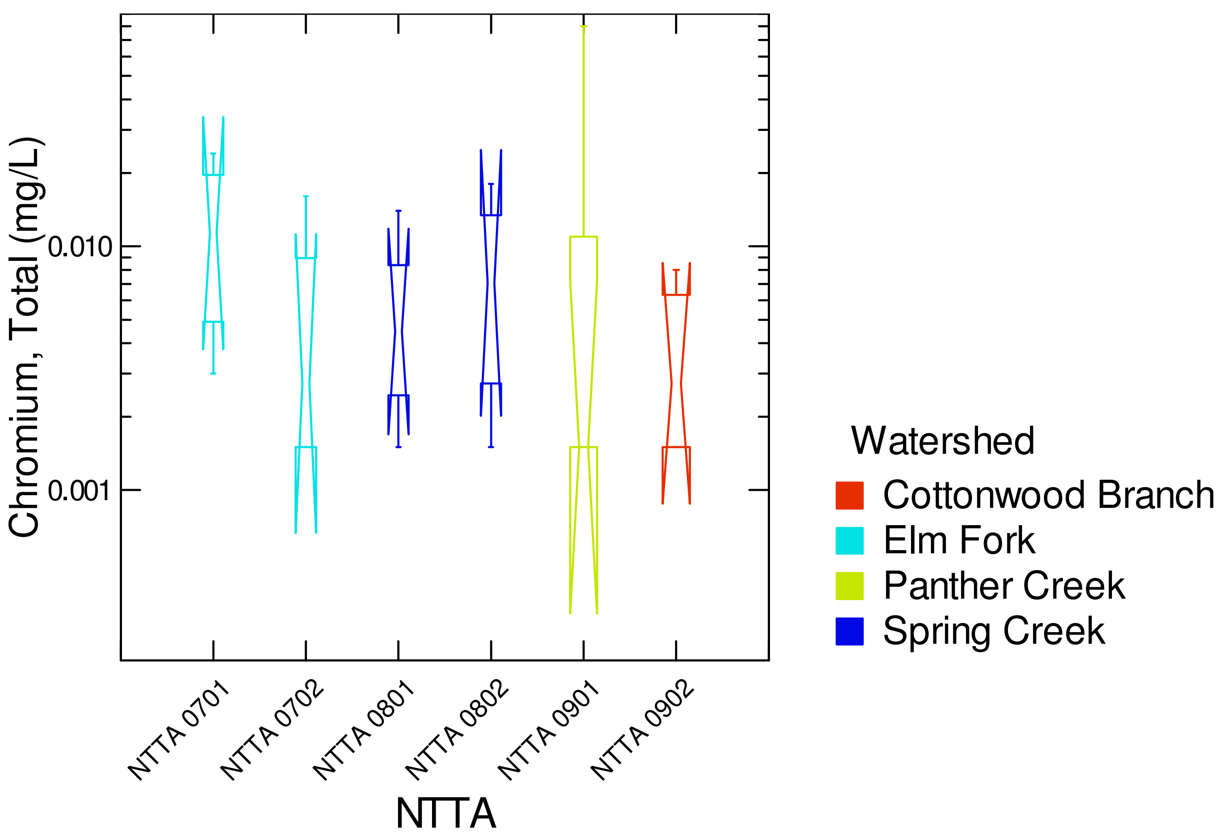
Chromium, Total (mg/L)
0.010
0.001
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek



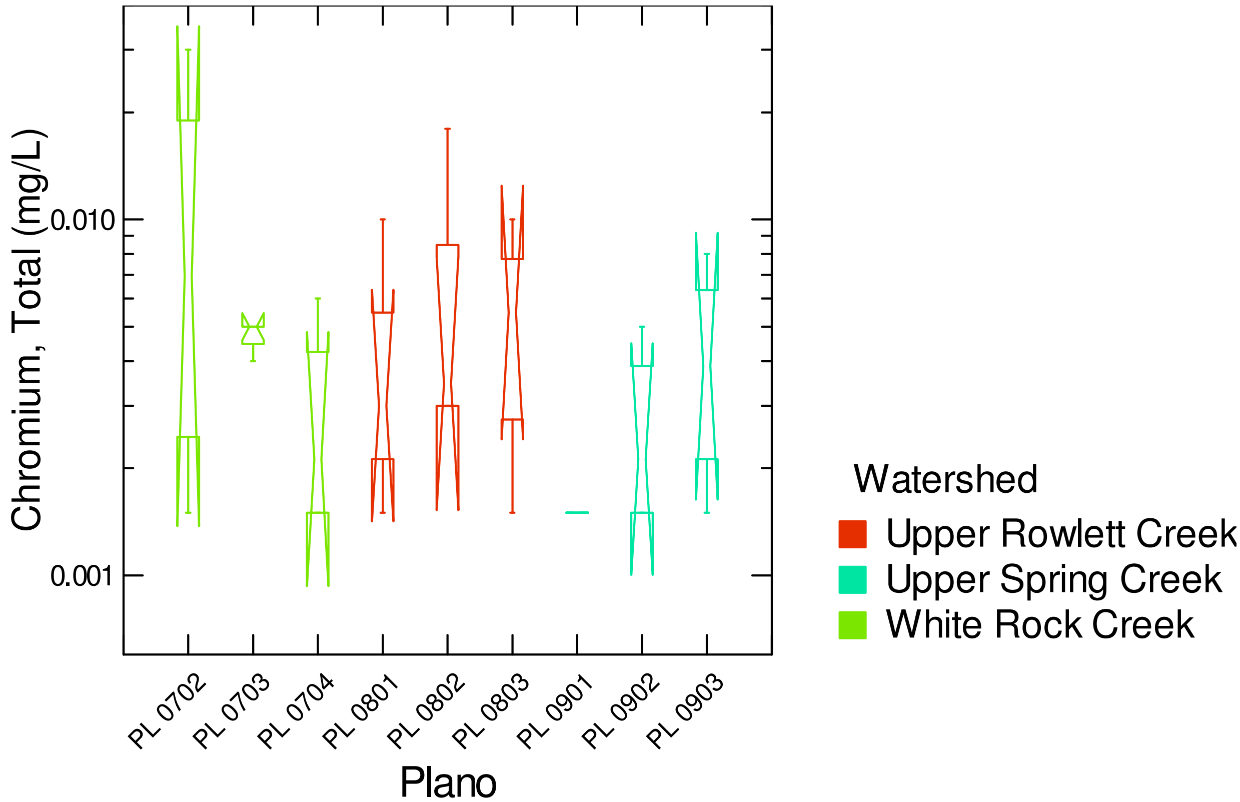
Chromium, Total (mg/L)
0.010
0.001
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek

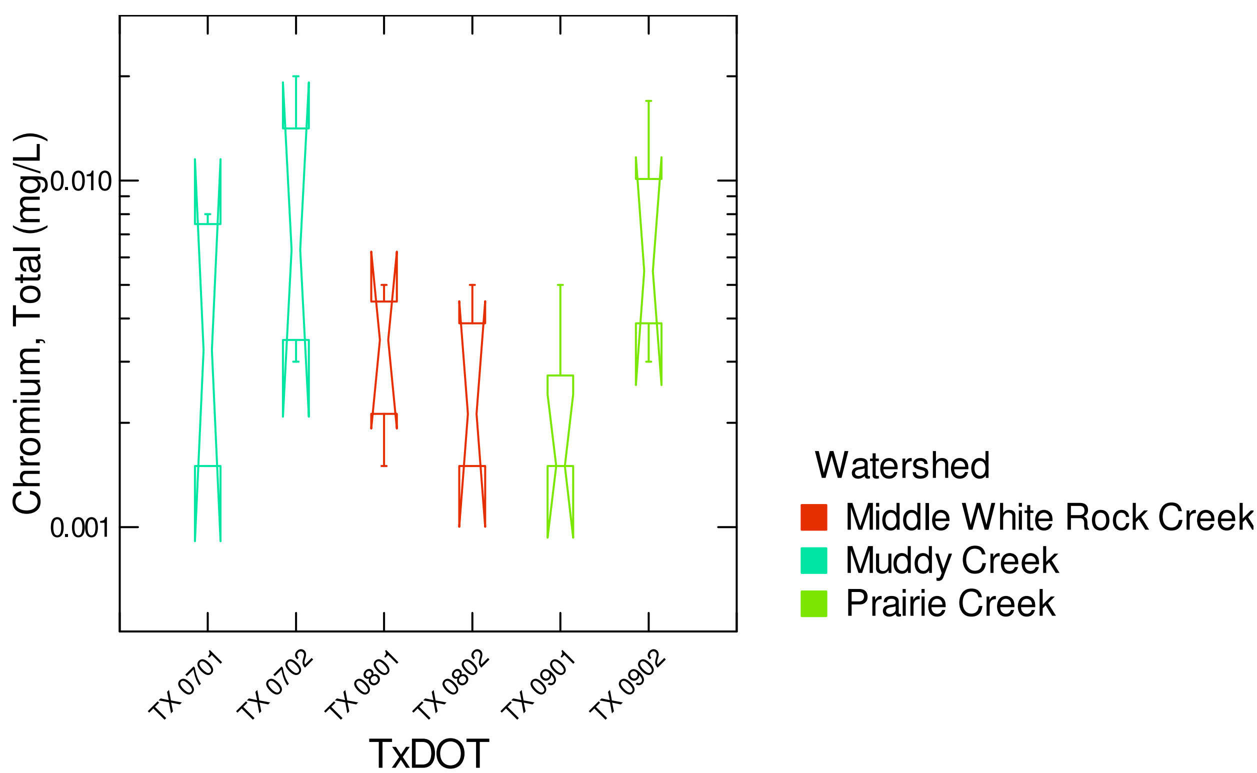


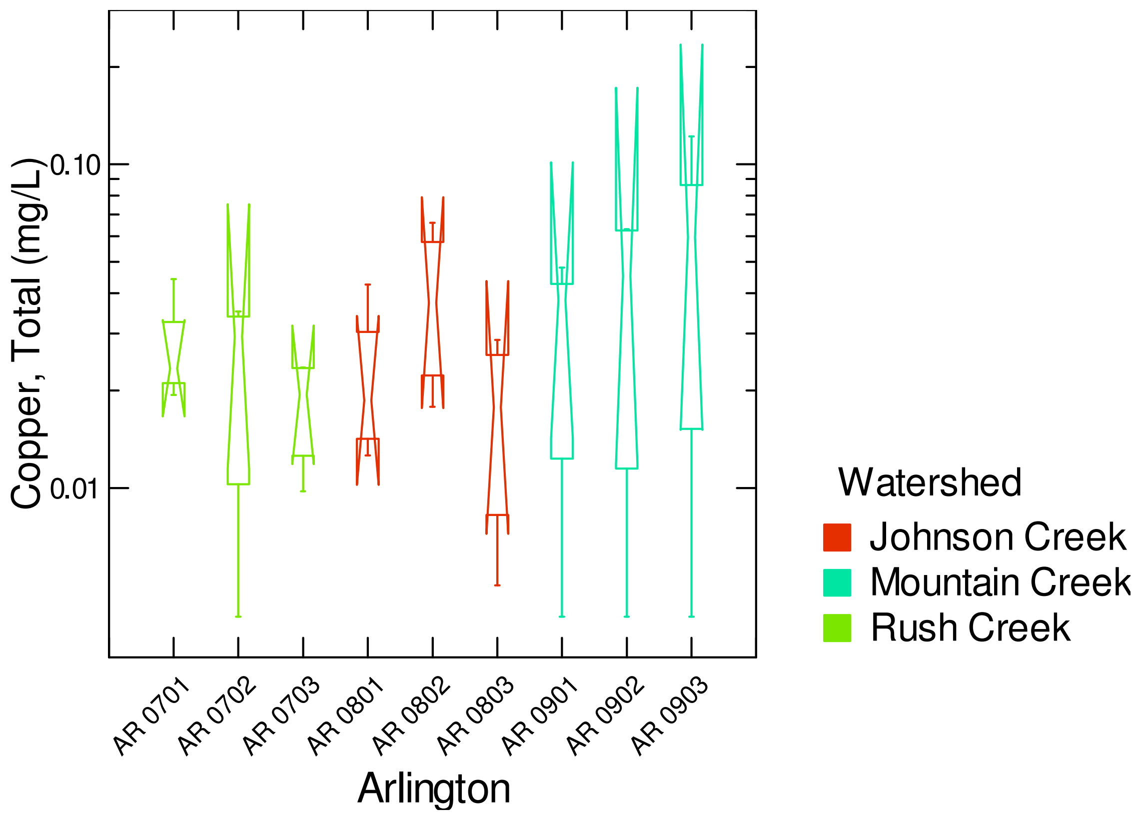
Chromium, Total (mg/L)
0.010
0.001
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek

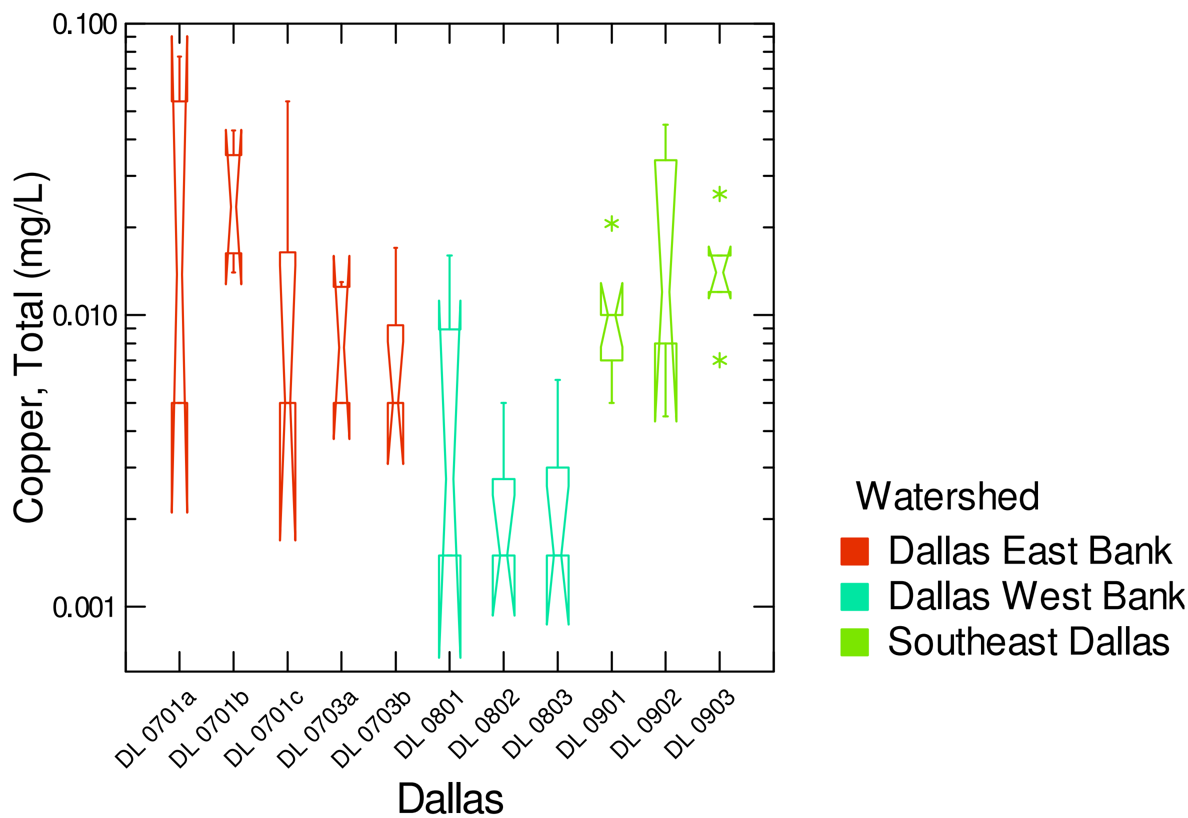


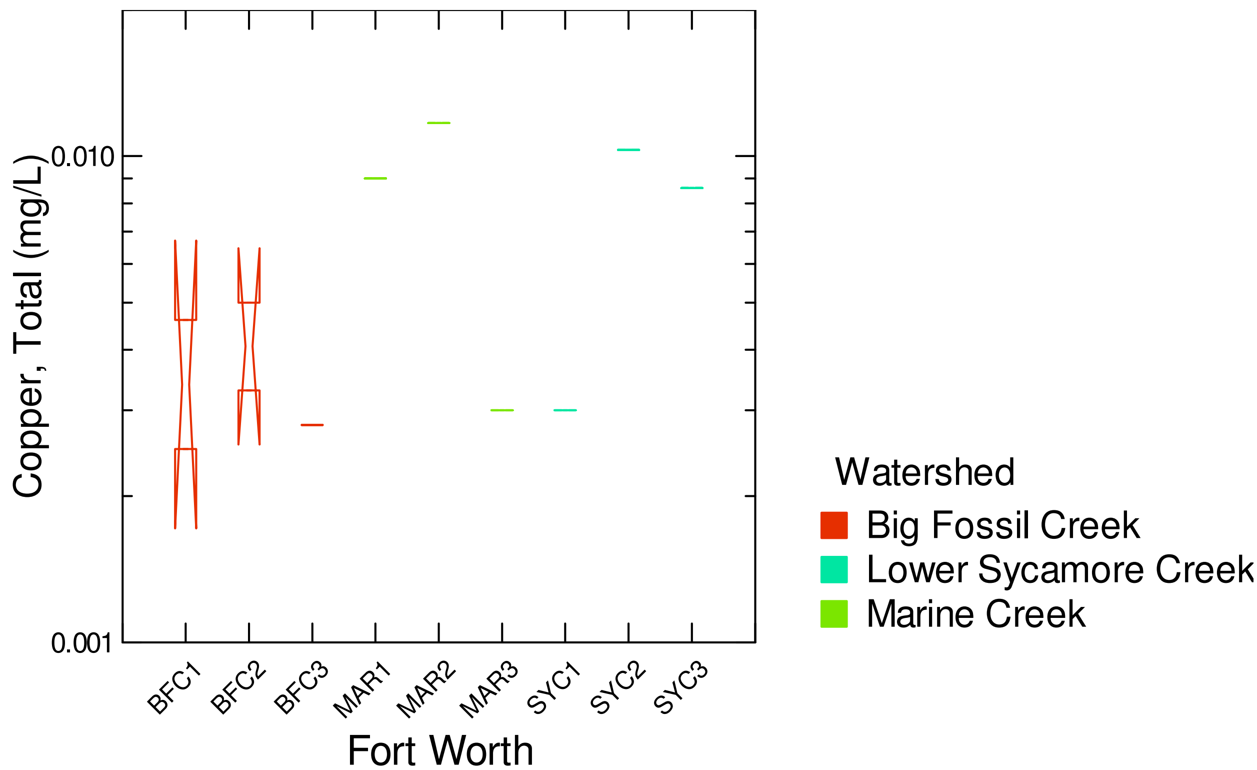
Chromium, Total (mg/L)
0.010
0.001
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek

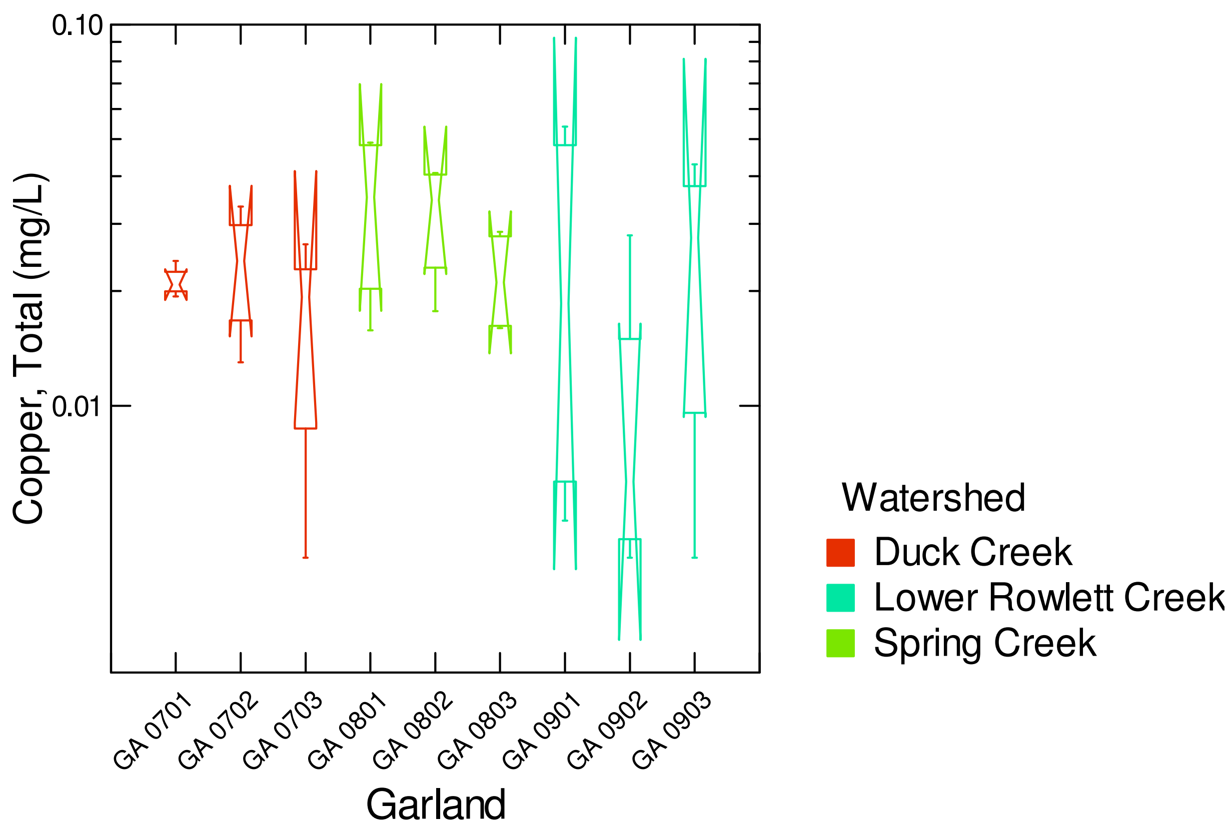

Chromium, Total (mg/L)
0.010
0.001
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek

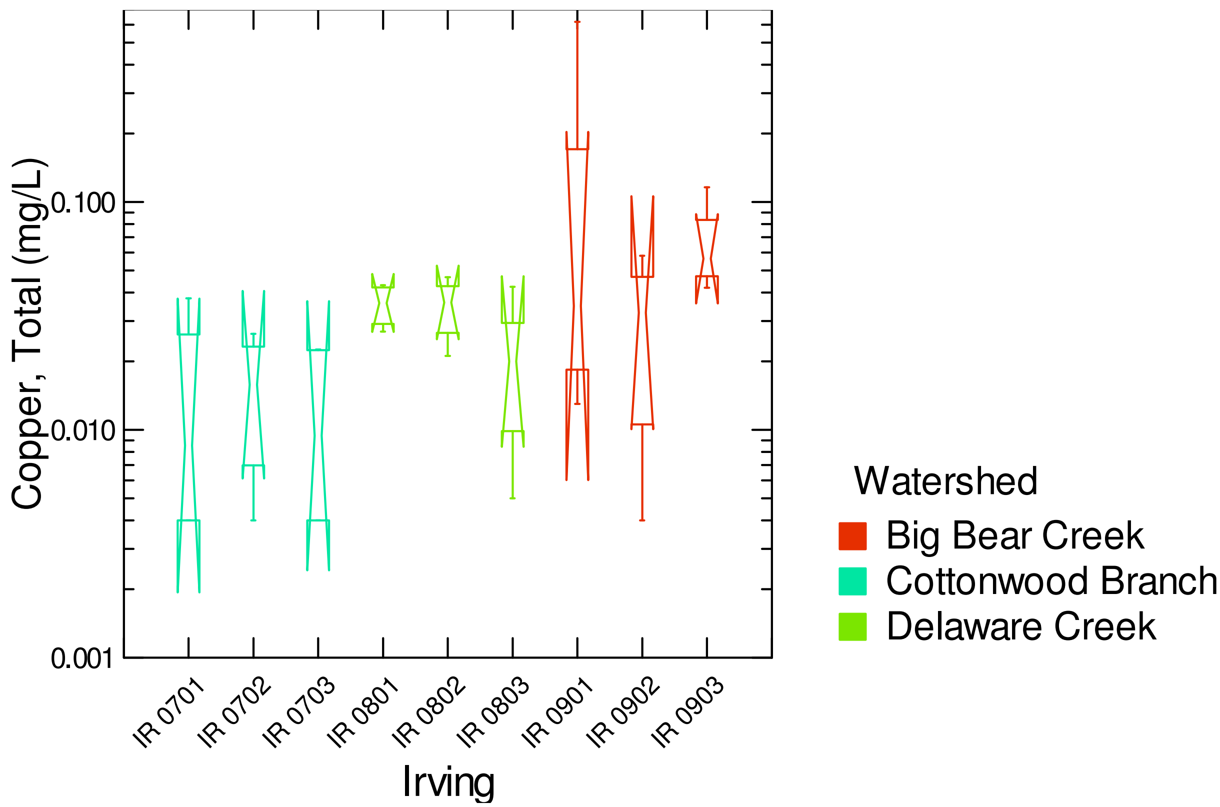

Chromium, Total (mg/L)
0.010
0.001
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek

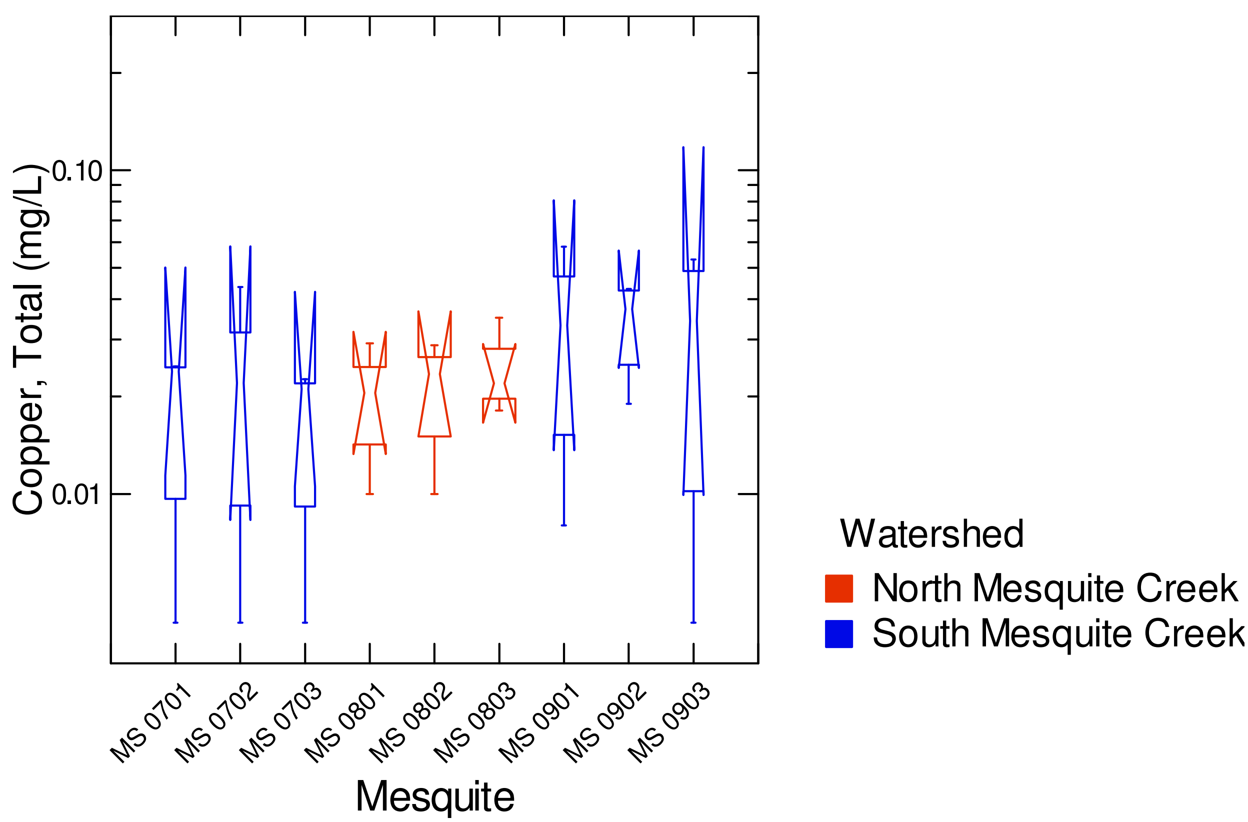

Copper, Total (mg/L)
0.10
0.01
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek

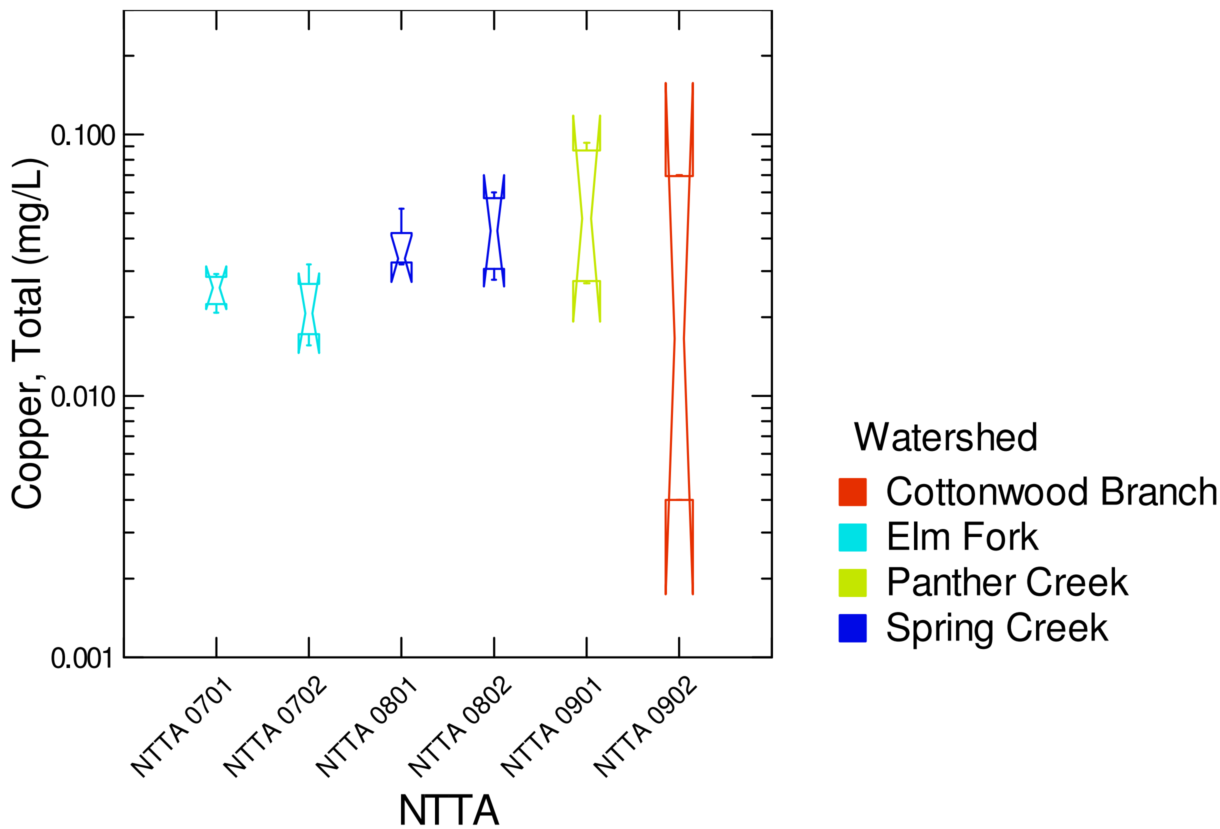

Copper, Total (mg/L)
0.100
0.010
0.001
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas

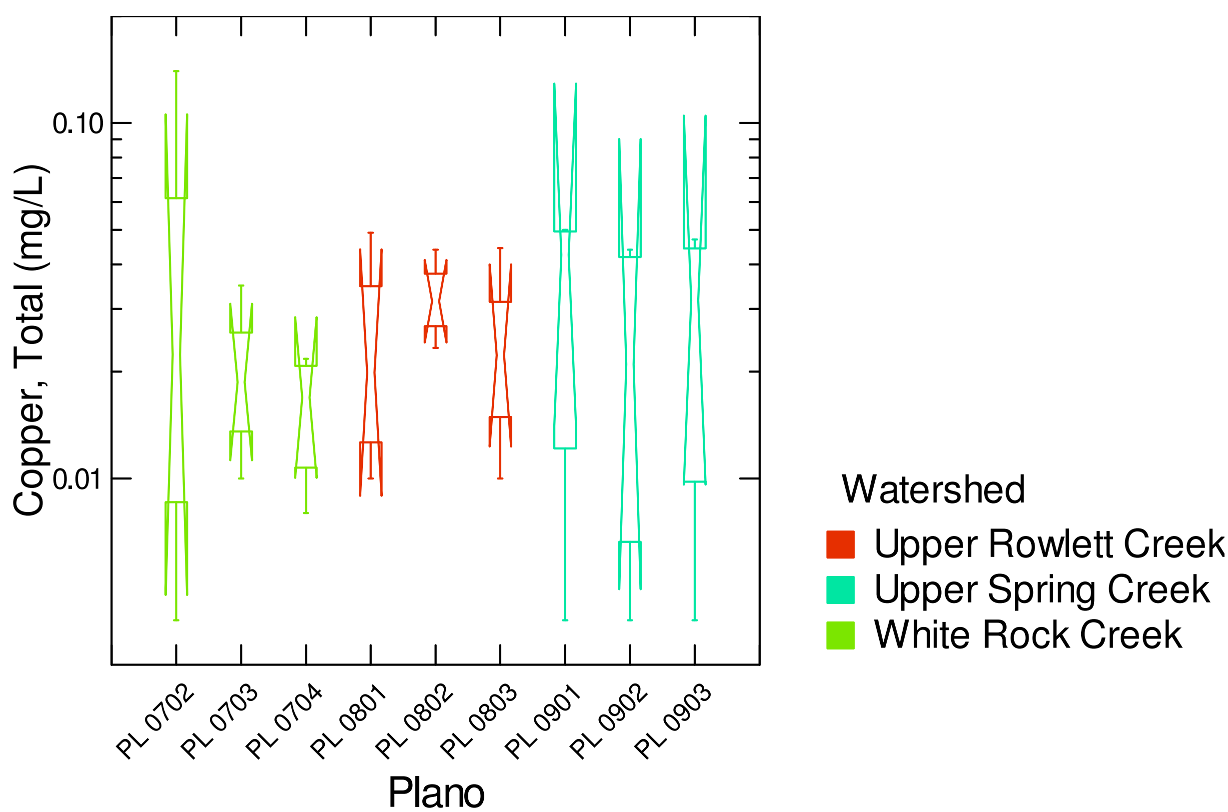

Copper, Total (mg/L)
0.010
0.001
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek

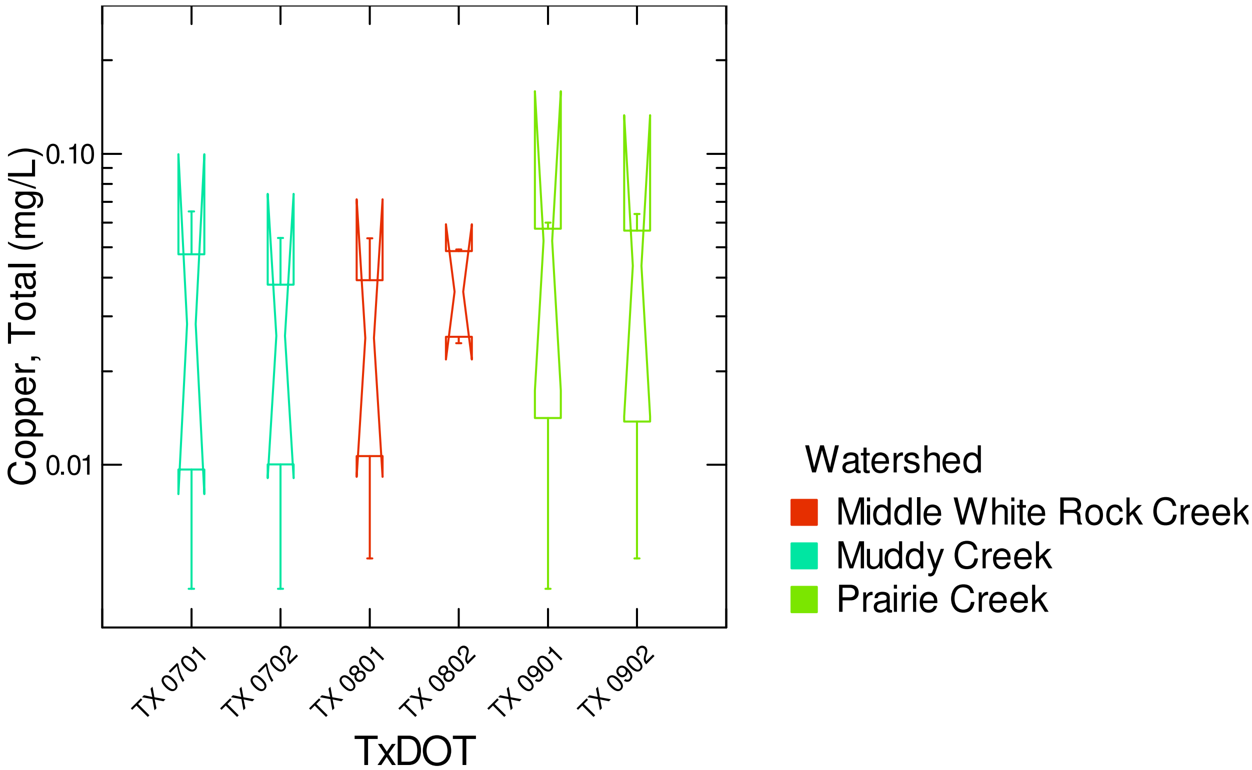

Copper, Total (mg/L)
0.10
0.01
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek


Copper, Total (mg/L)
0.100
0.010
0.001
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek

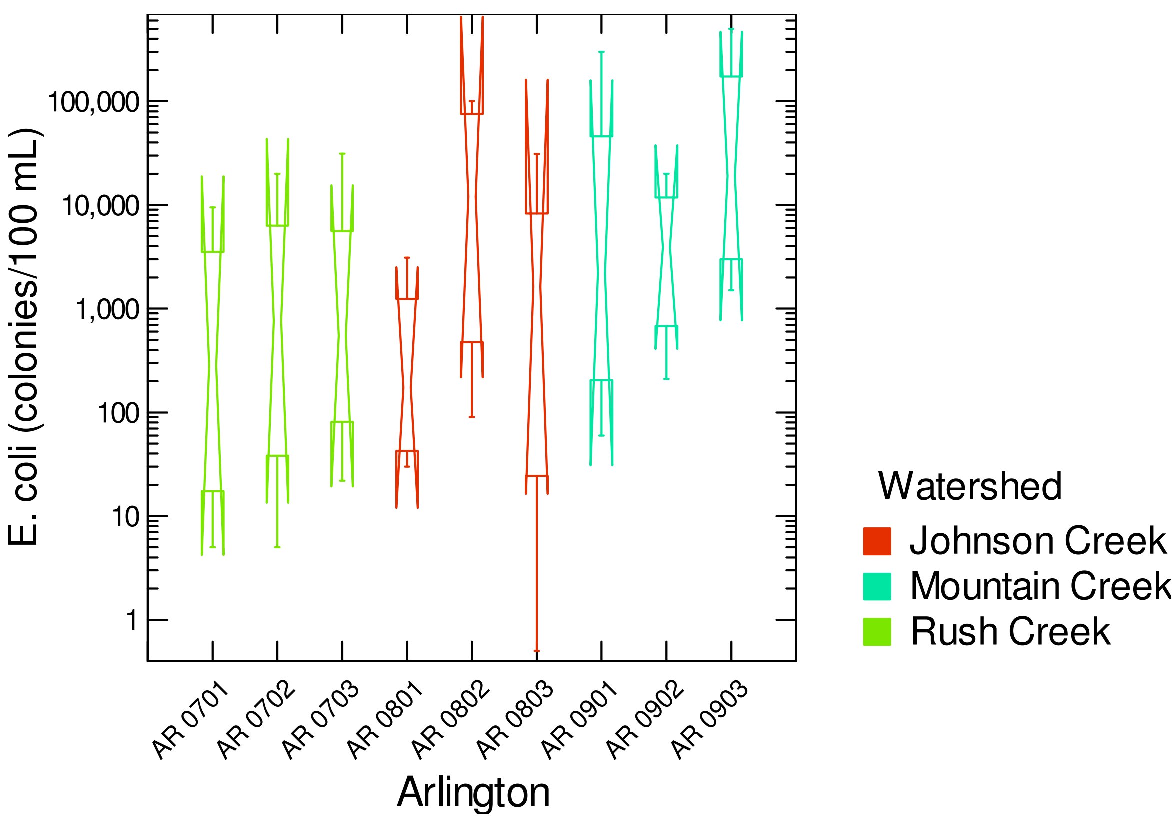

Copper, Total (mg/L)
0.10
0.01
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek


Copper, Total (mg/L)
0.100
0.010
0.001
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek

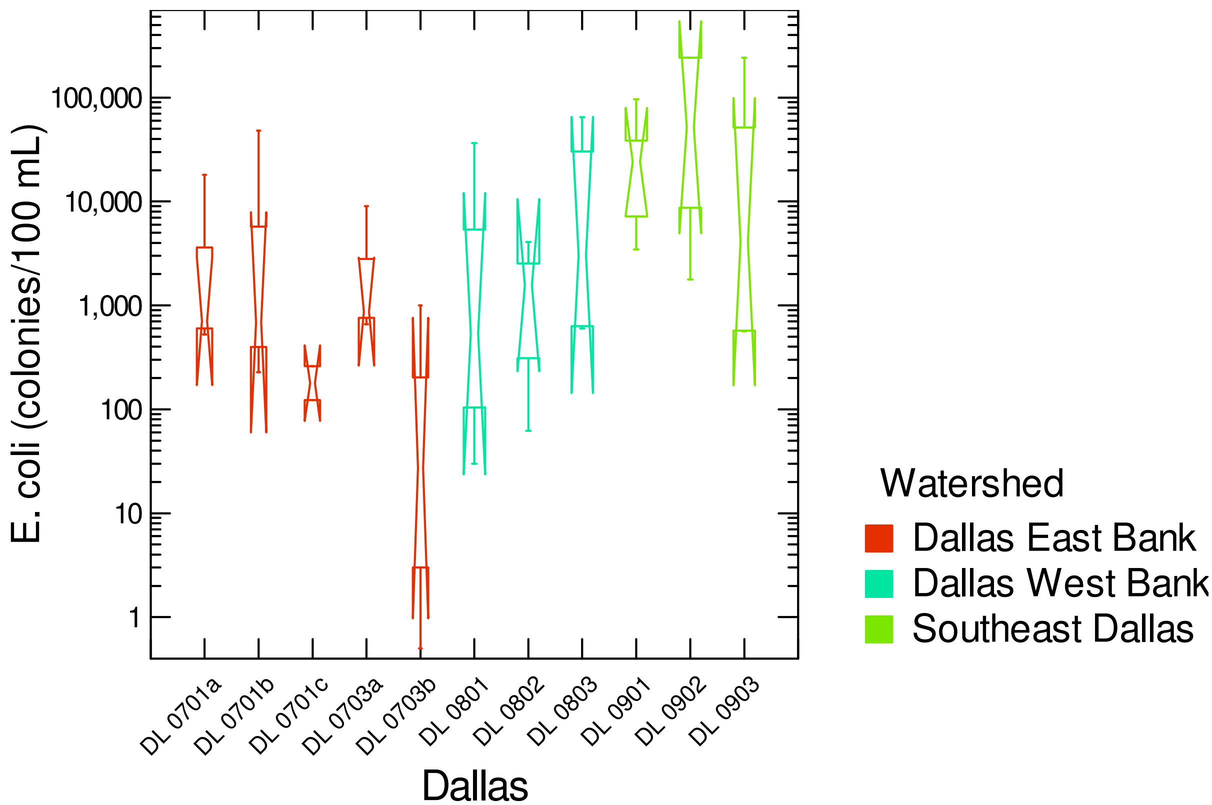

Copper, Total (mg/L)
0.10
0.01
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek



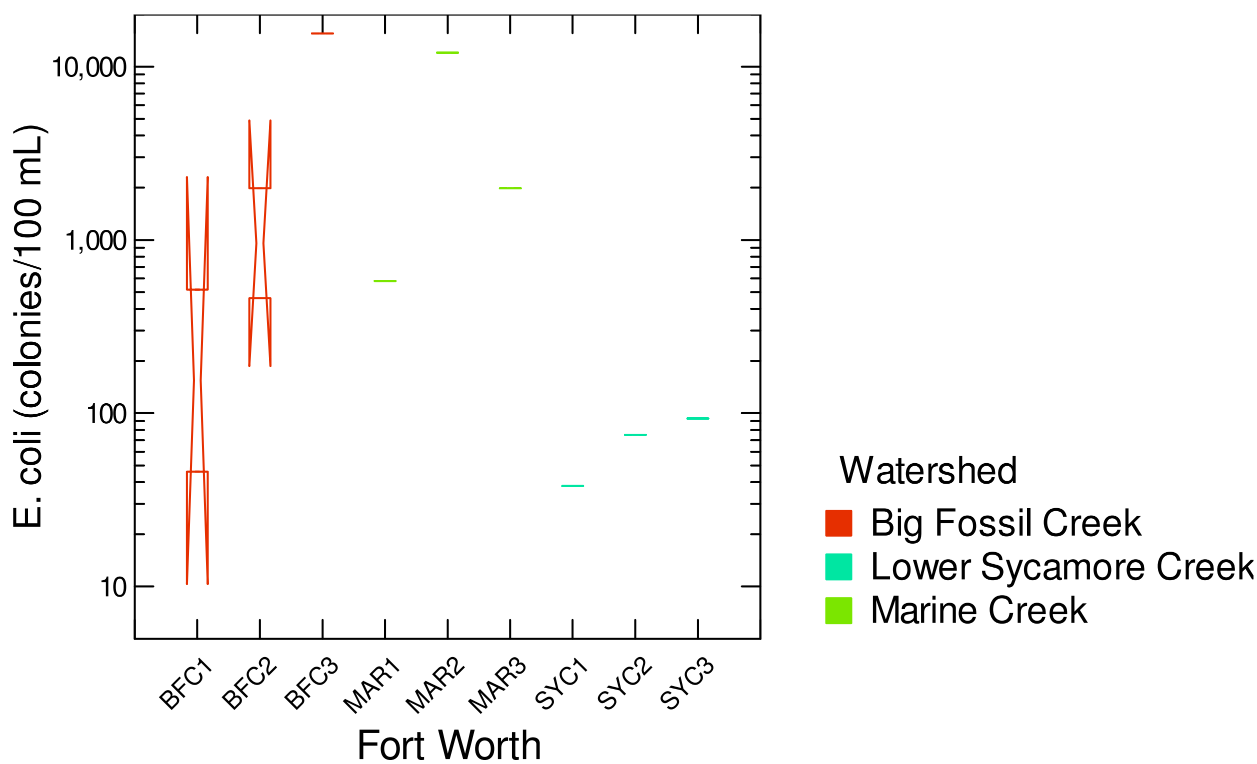
Copper, Total (mg/L)
0.10
0.01
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek



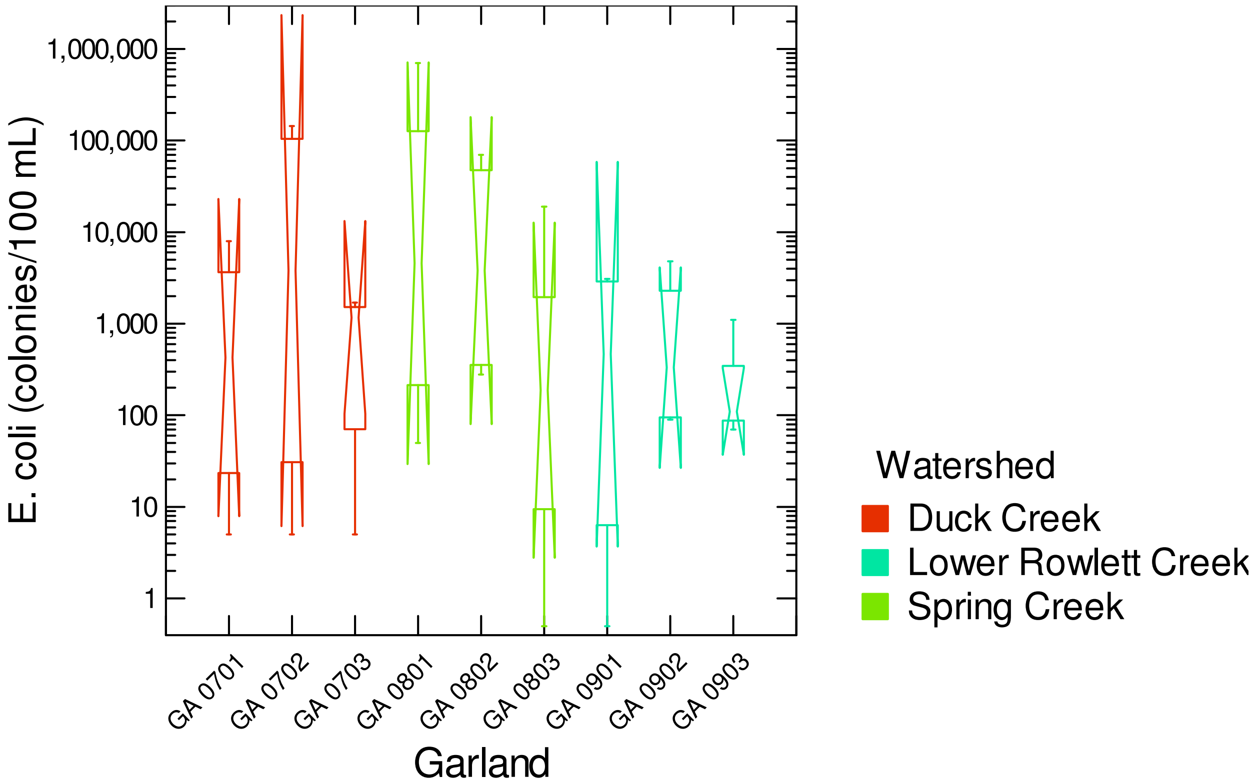
E. coli (colonies/100 mL)
100,000
10,000
1,000
100
10
1
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek



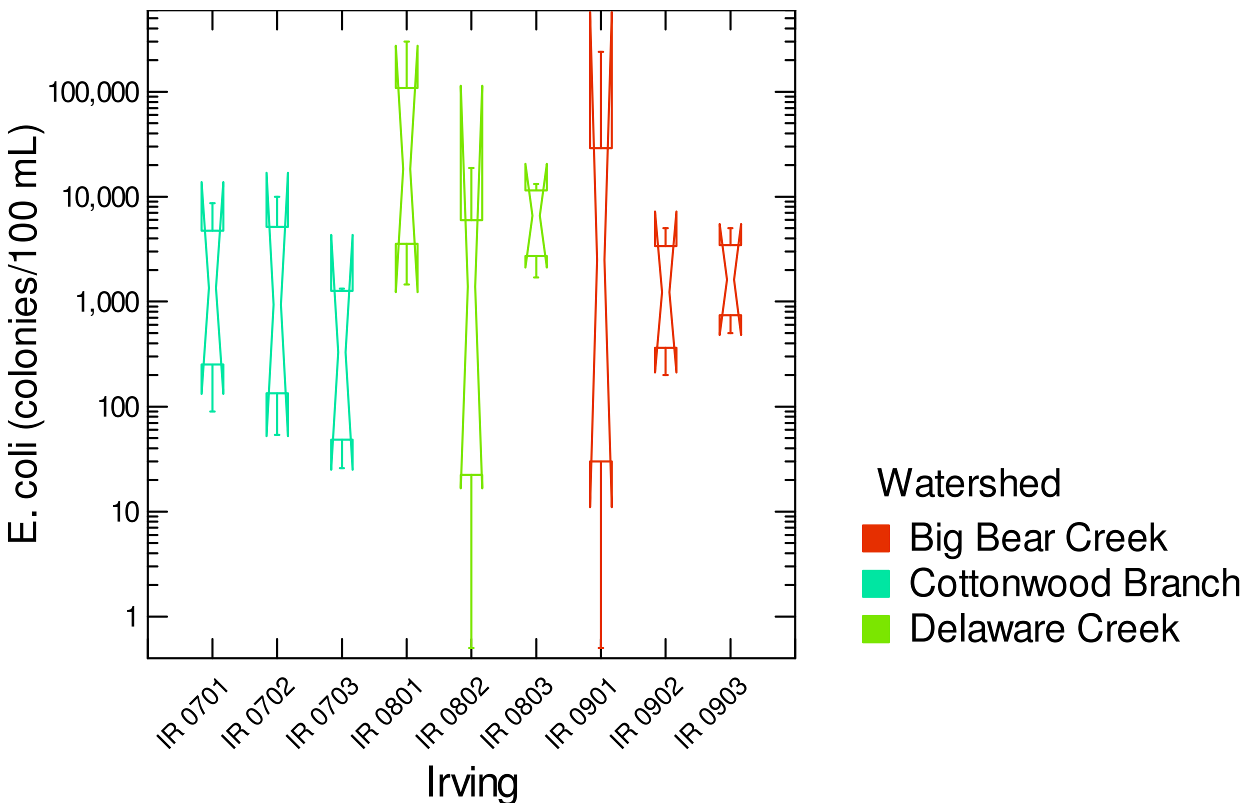
E. coli (colonies/100 mL)
100,000
10,000
1,000
100
10
1
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas



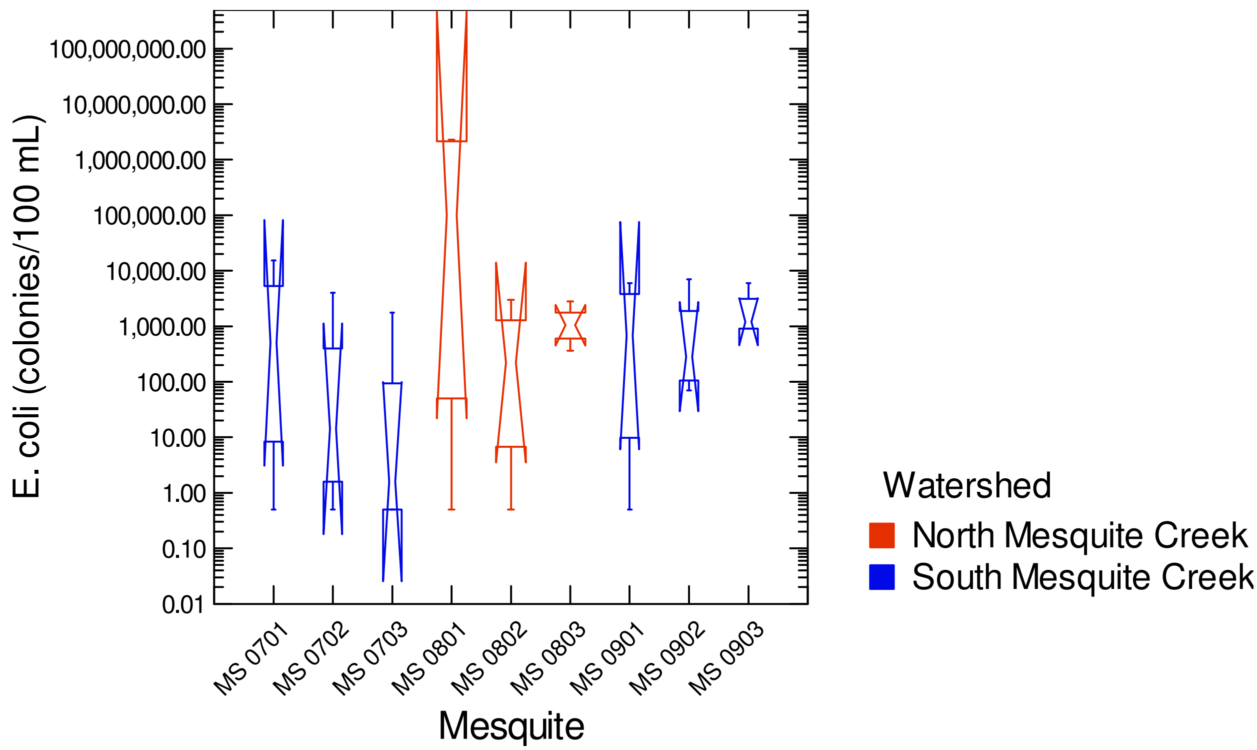
E. coli (colonies/100 mL)
10,000
1,000
100
10
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek

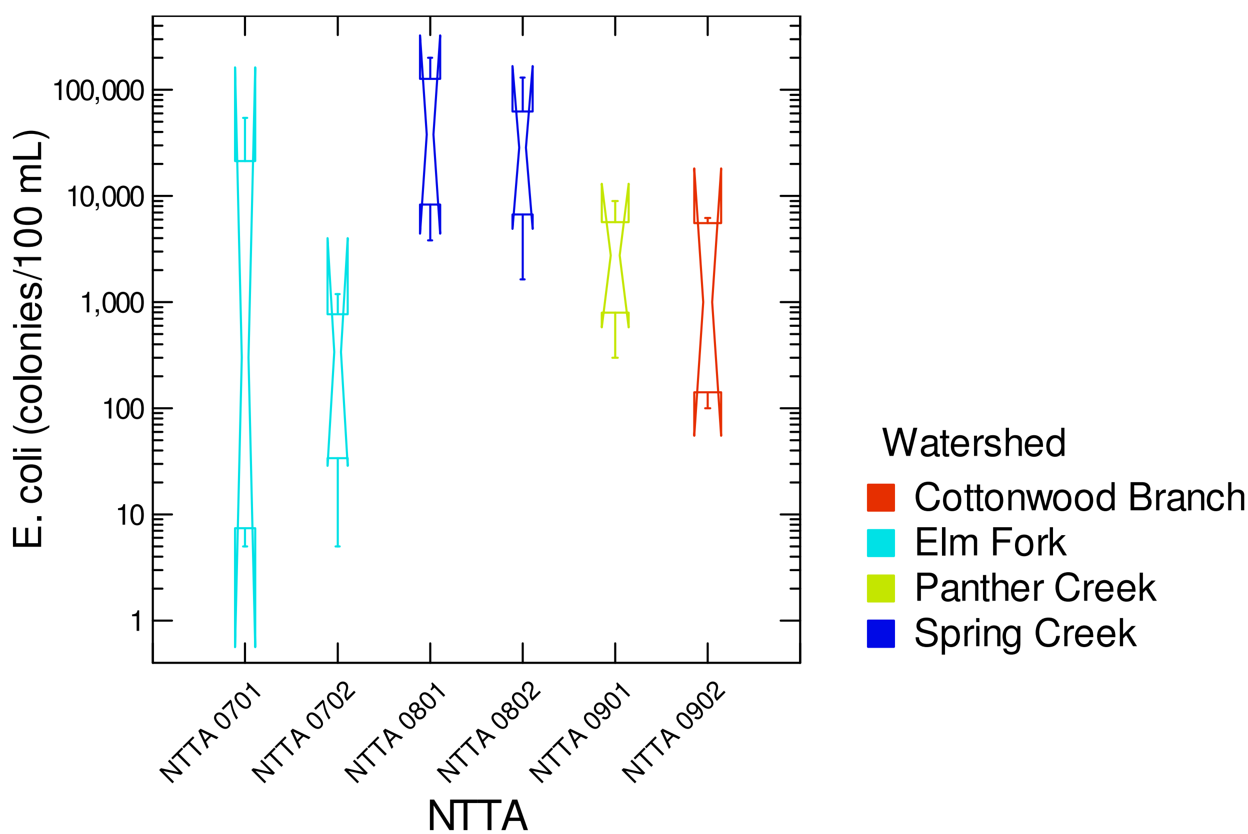


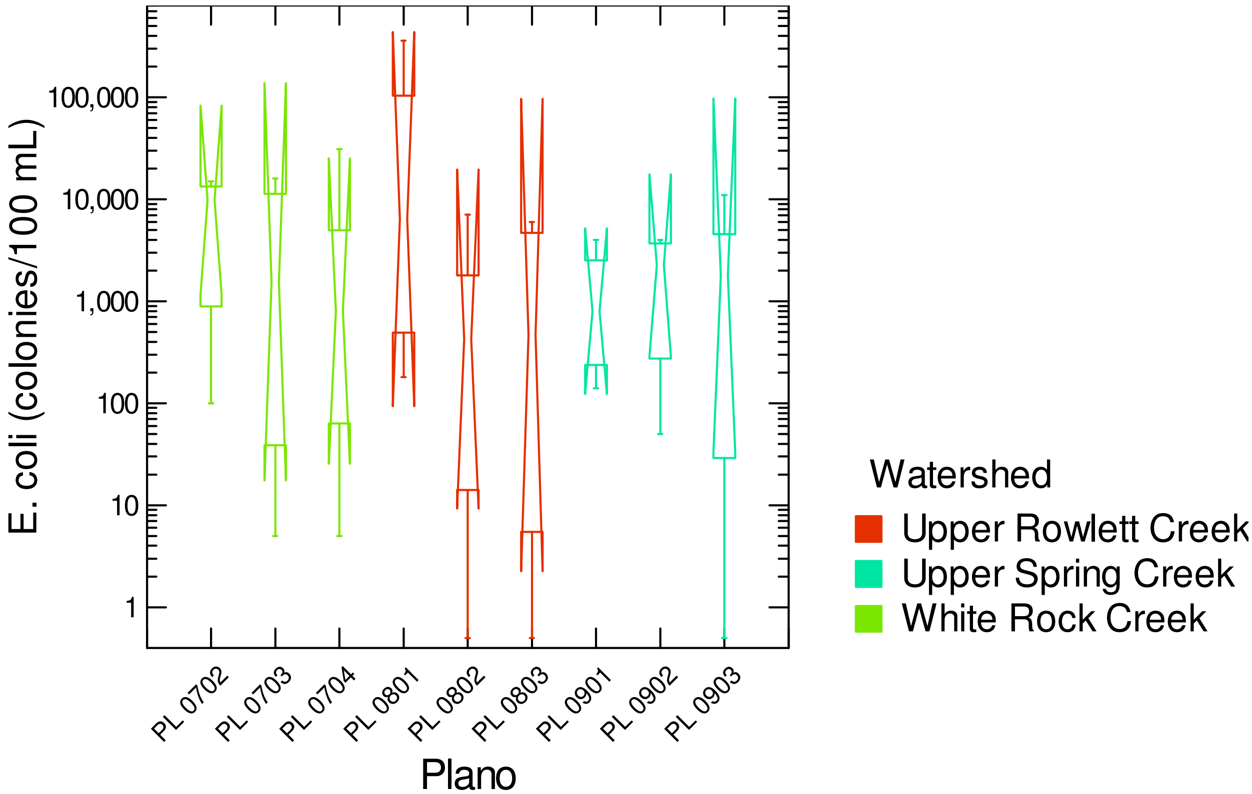
E. coli (colonies/100 mL)
1,000,000
100,000
10,000
1,000
100
10
1
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek

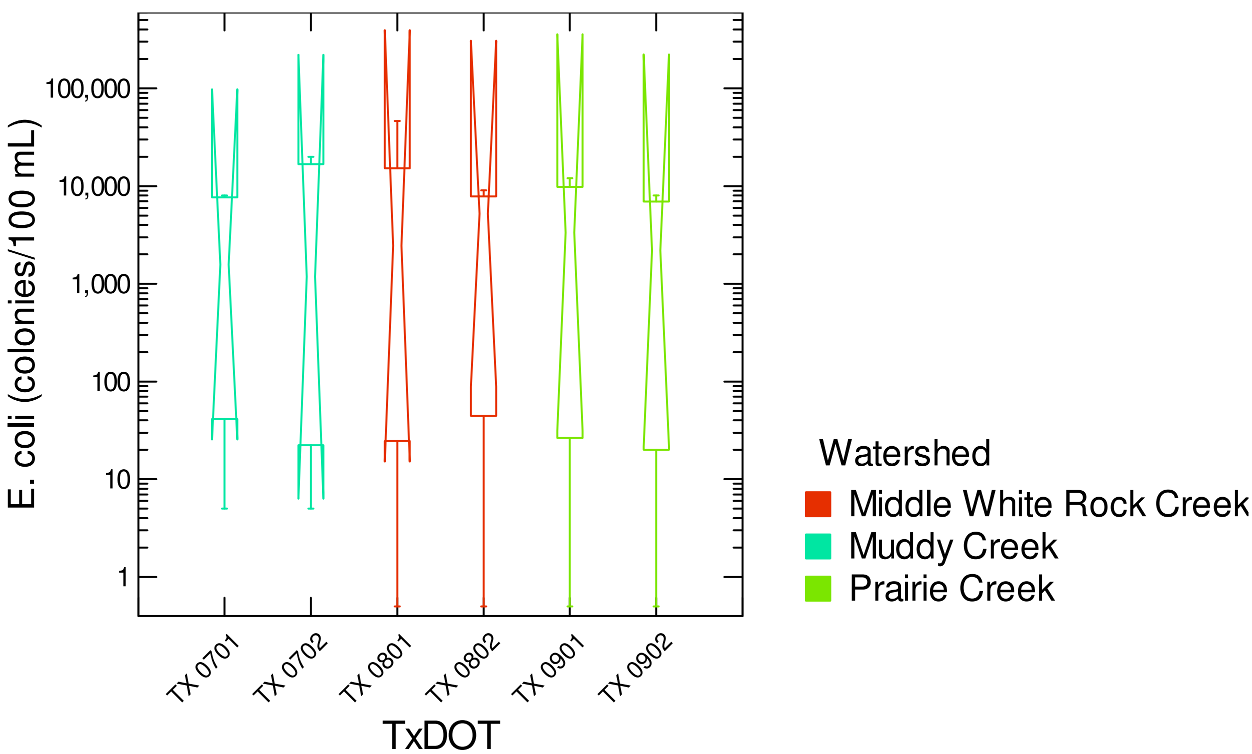


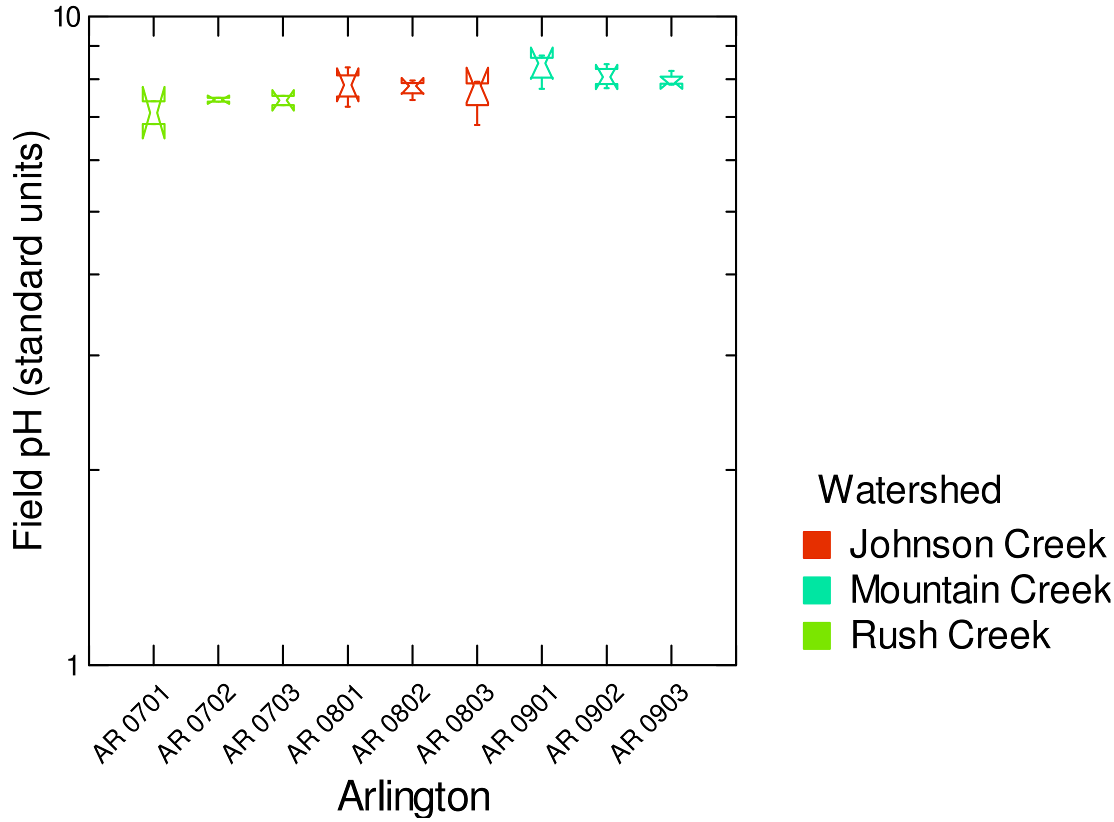
E. coli (colonies/100 mL)
100,000
10,000
1,000
100
10
1
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek

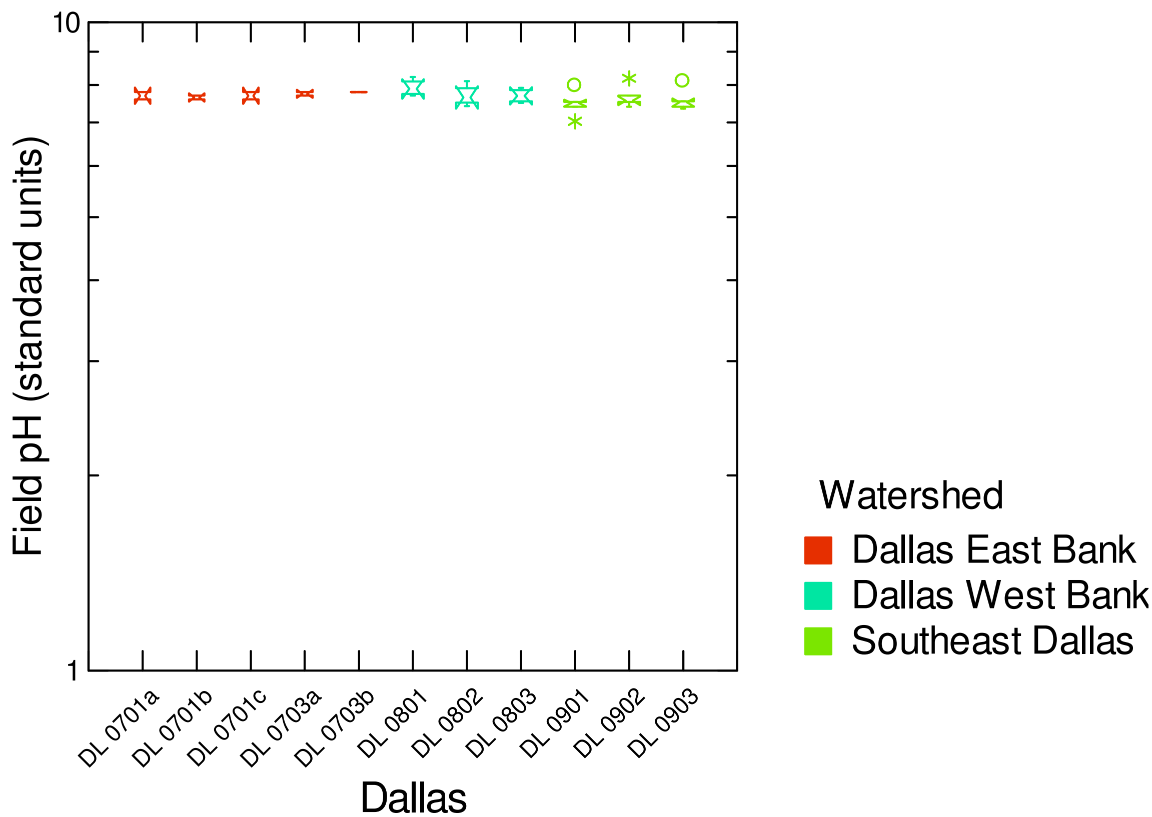

E. coli (colonies/100 mL)
100,000,000.00
10,000,000.00
1,000,000.00
100,000.00
10,000.00
1,000.00
100.00
10.00
1.00
0.10
0.01
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek

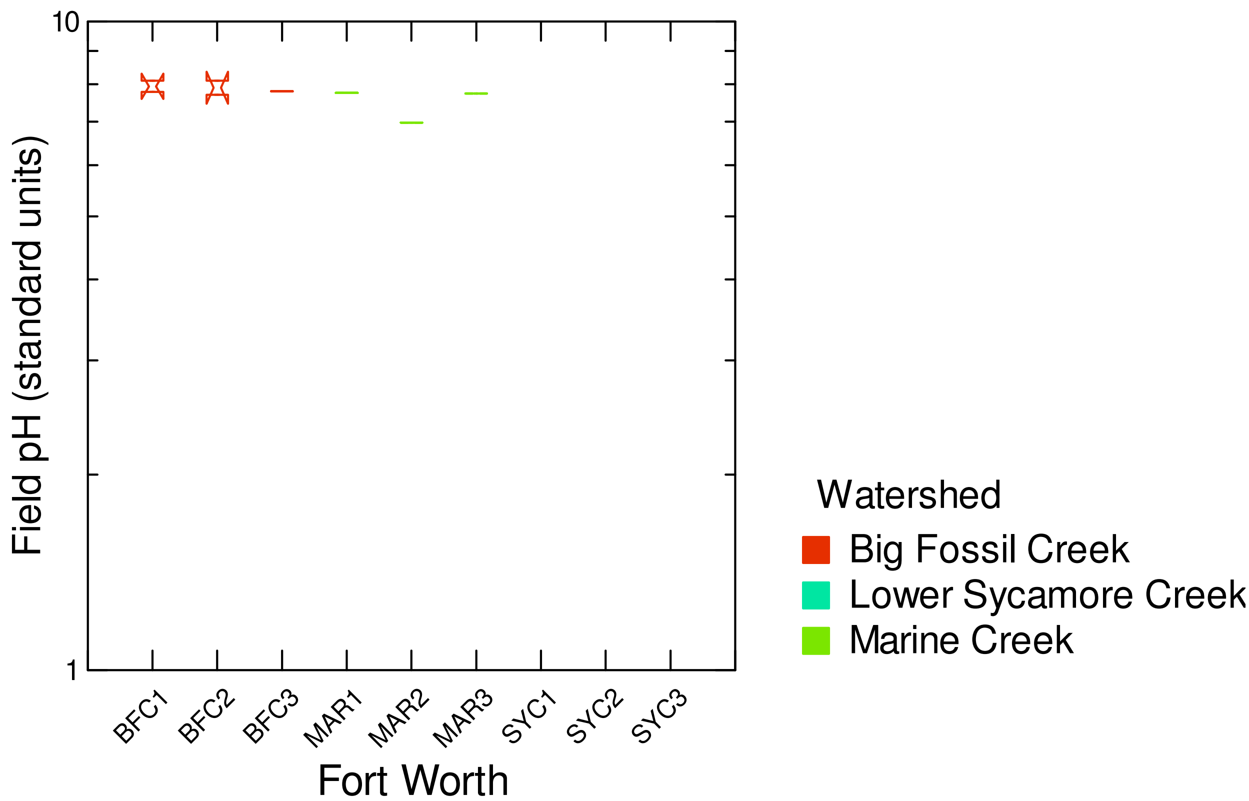

E. coli (colonies/100 mL)
100,000
10,000
1,000
100
10
1
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek


E. coli (colonies/100 mL)
100,000
10,000
1,000
100
10
1
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek

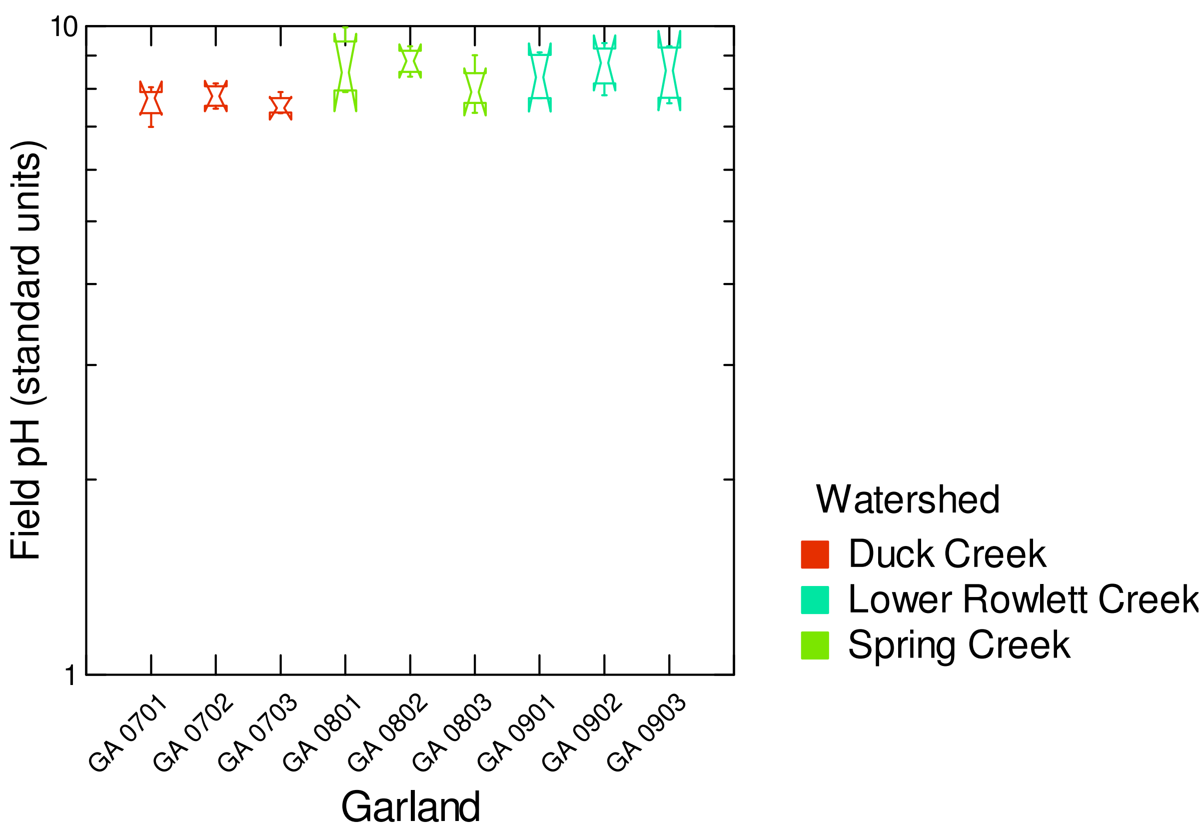

E. coli (colonies/100 mL)
100,000
10,000
1,000
100
10
1
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek


Field pH (standard units)
10
1
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek

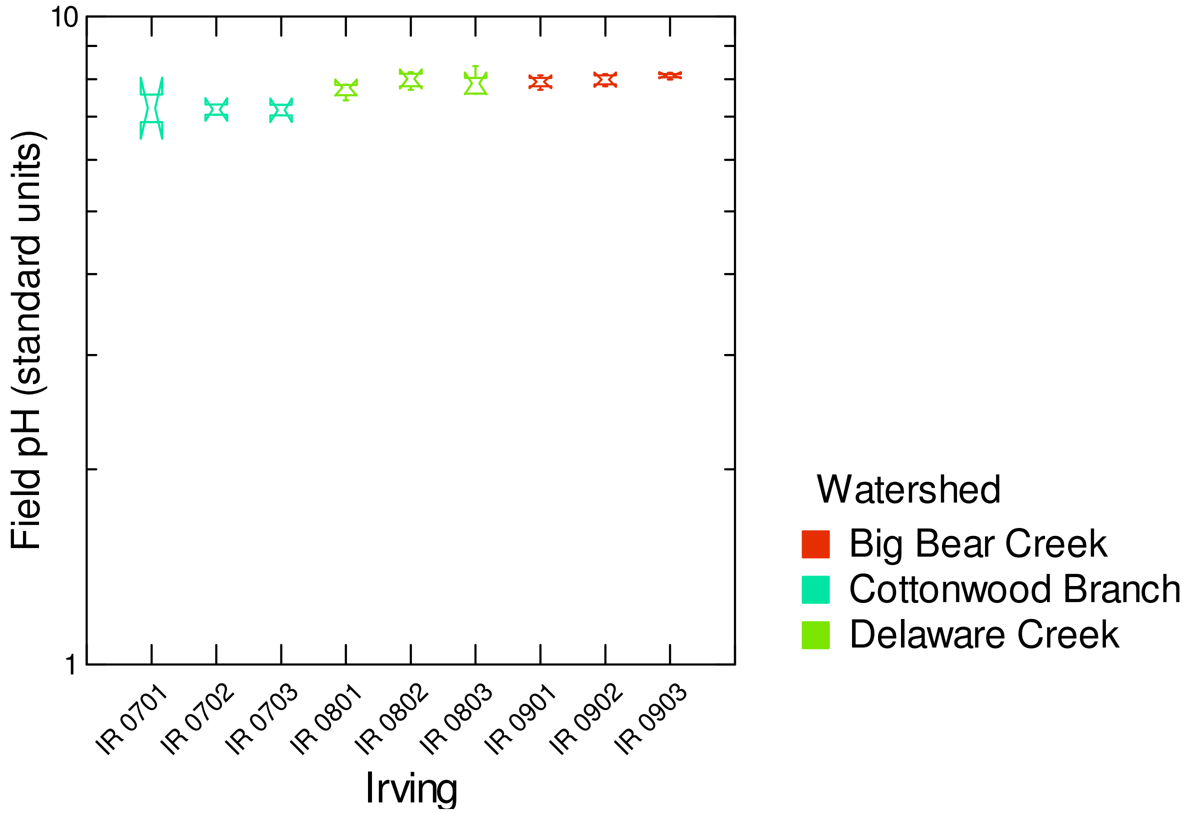

Field pH (standard units)
10
1
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas

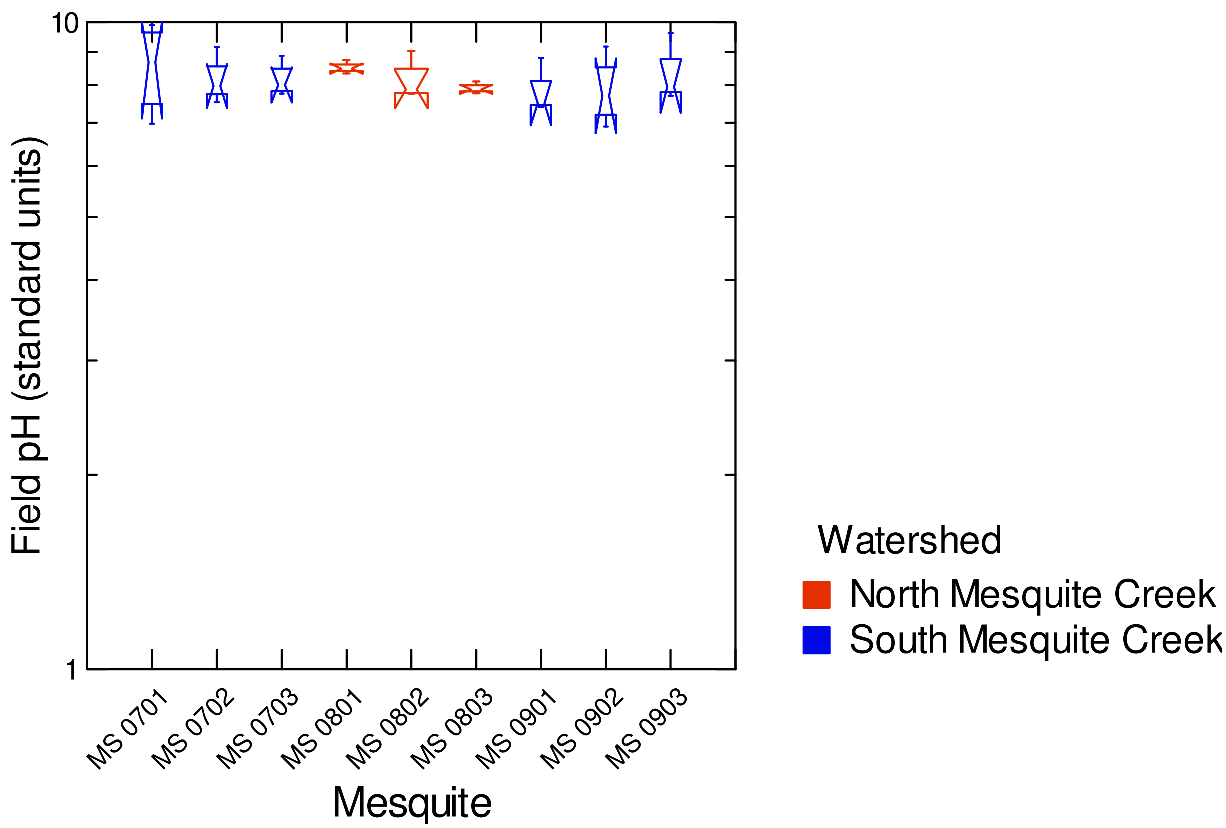


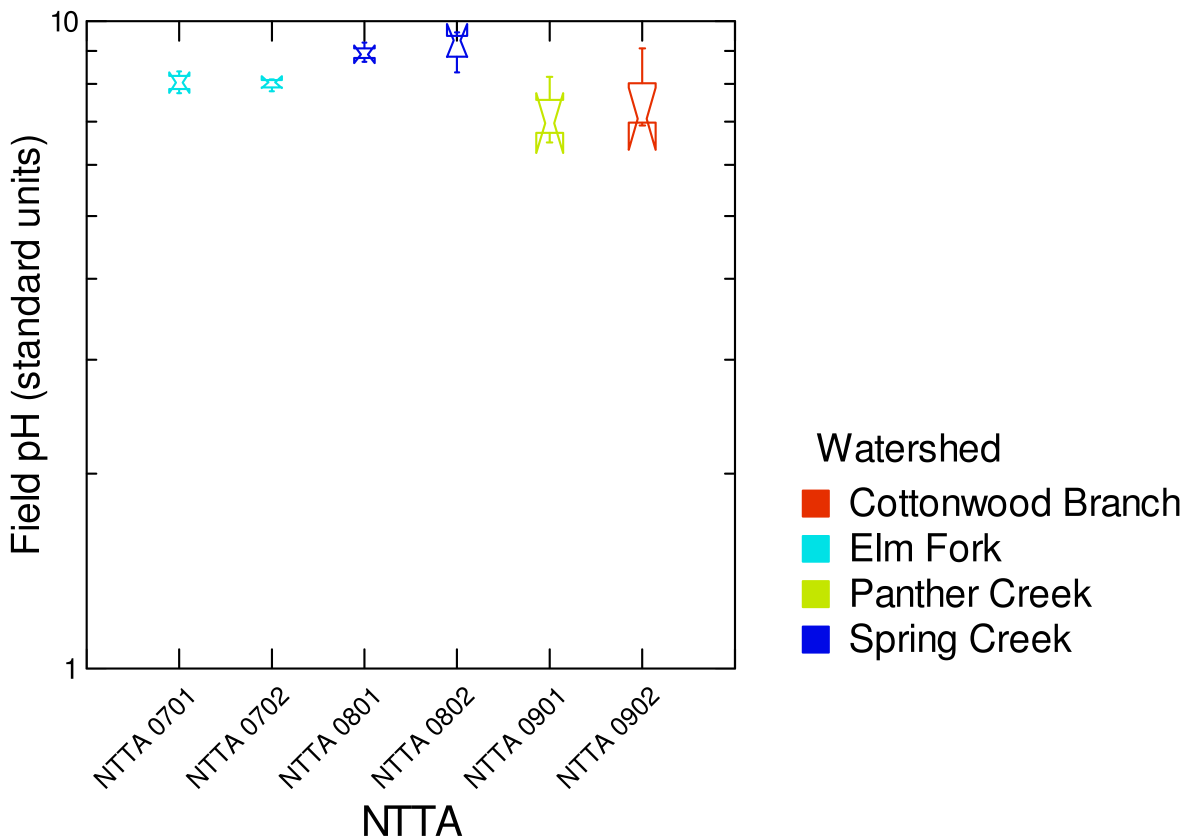
10
1
Field pH (standard units)
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek

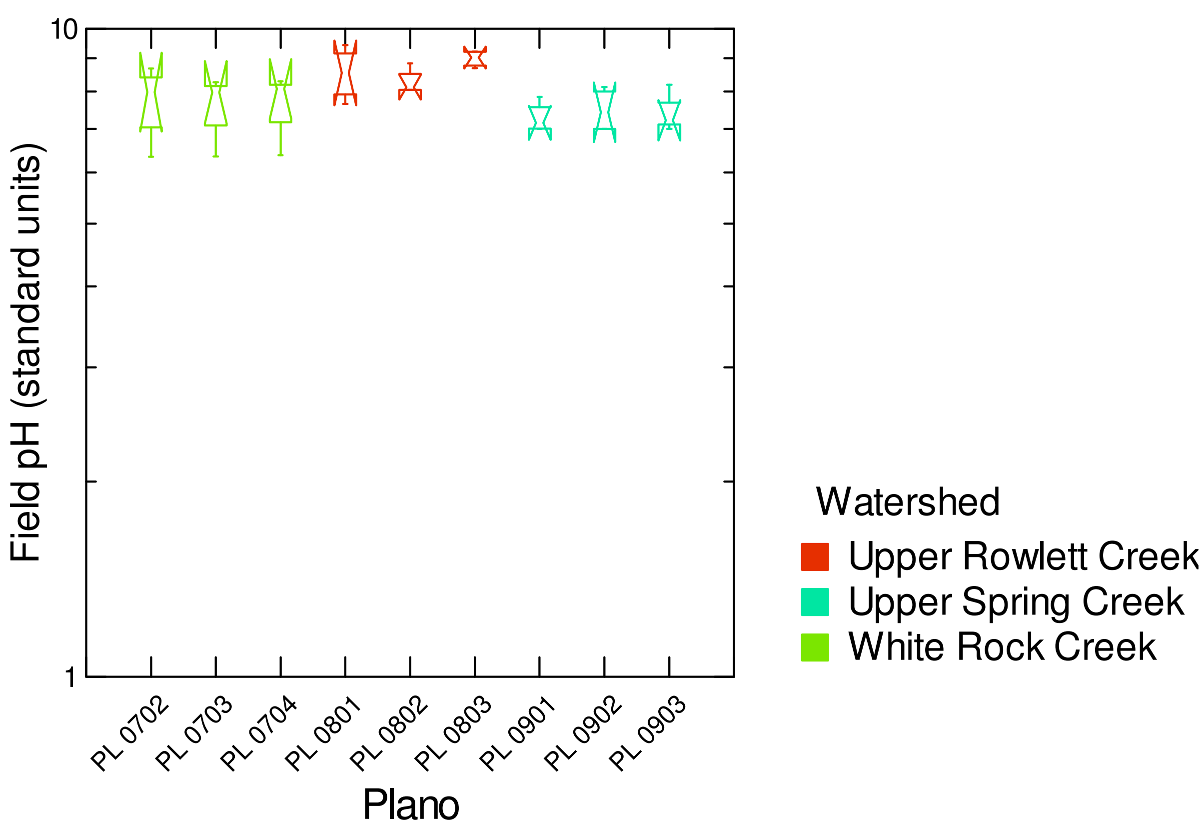


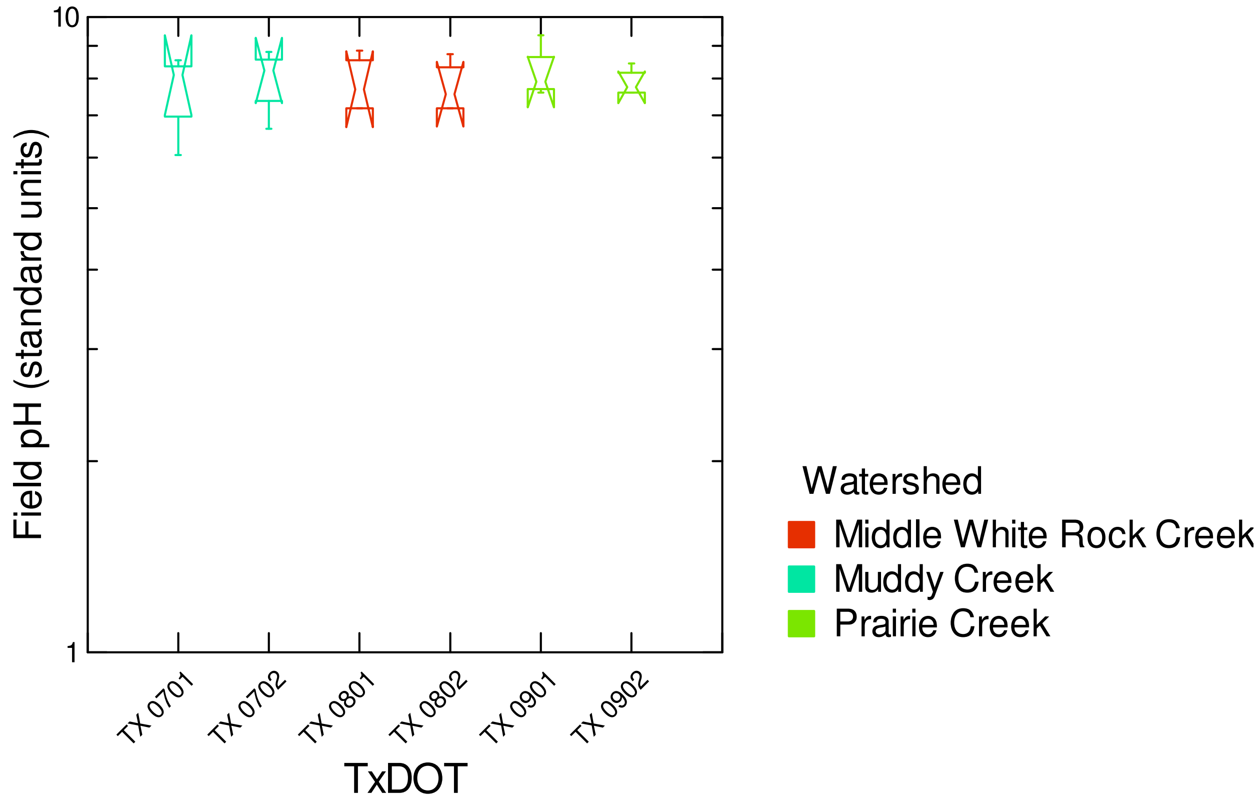
10
1
Field pH (standard units)
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek

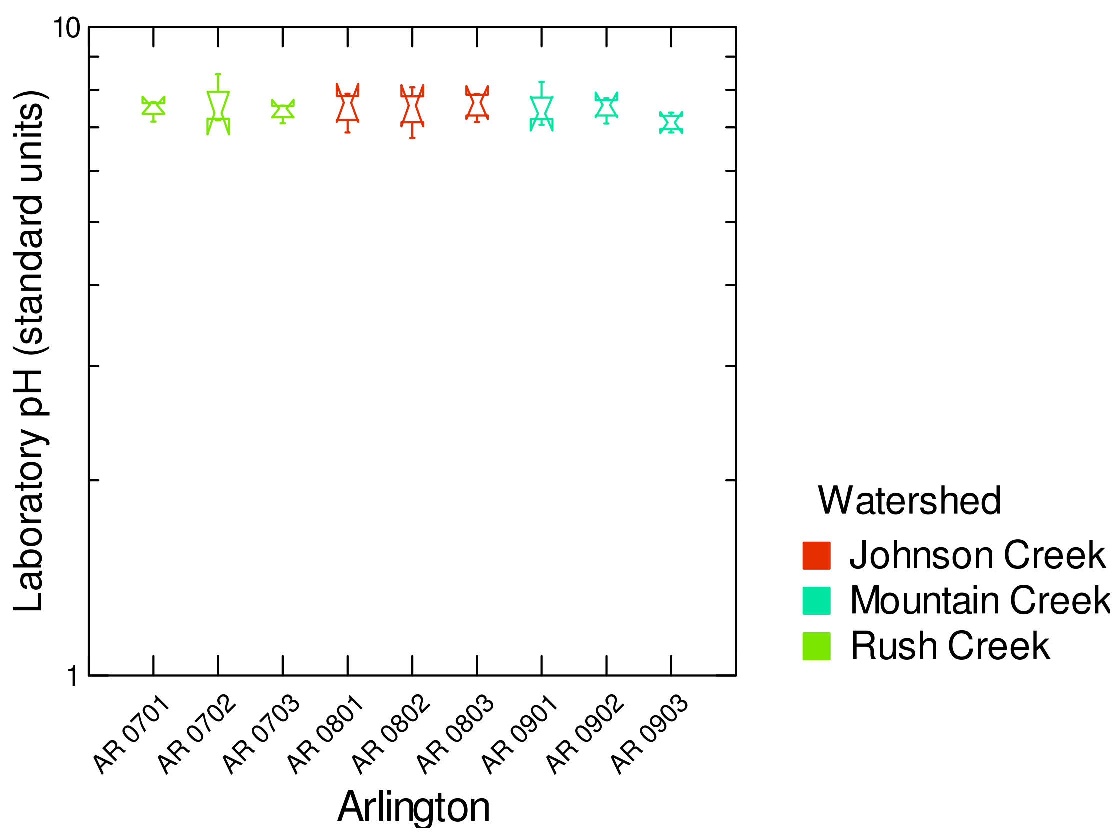

10
1
Field pH (standard units)
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek

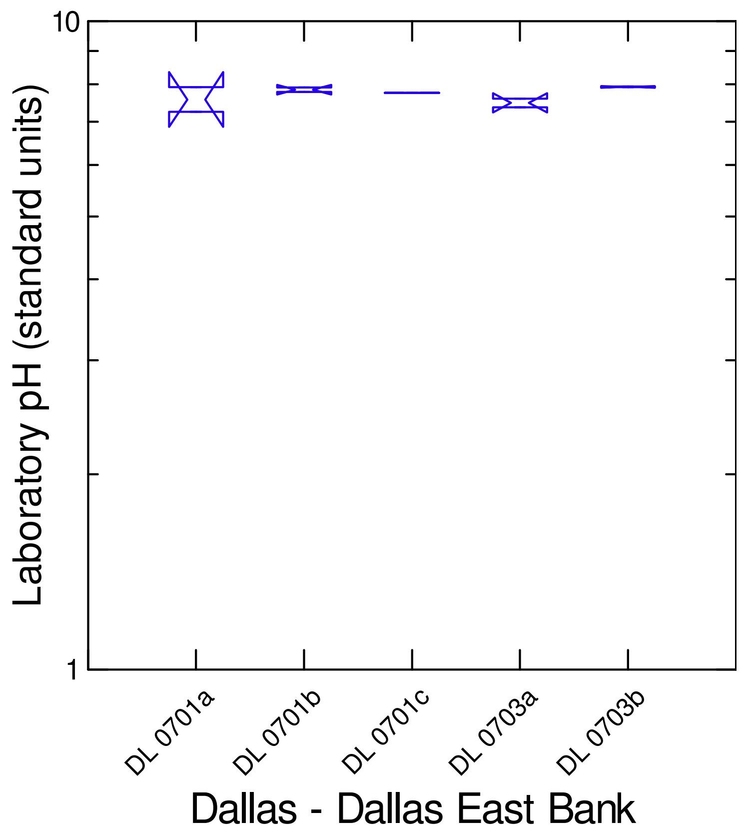

10
1
Field pH (standard units)
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek

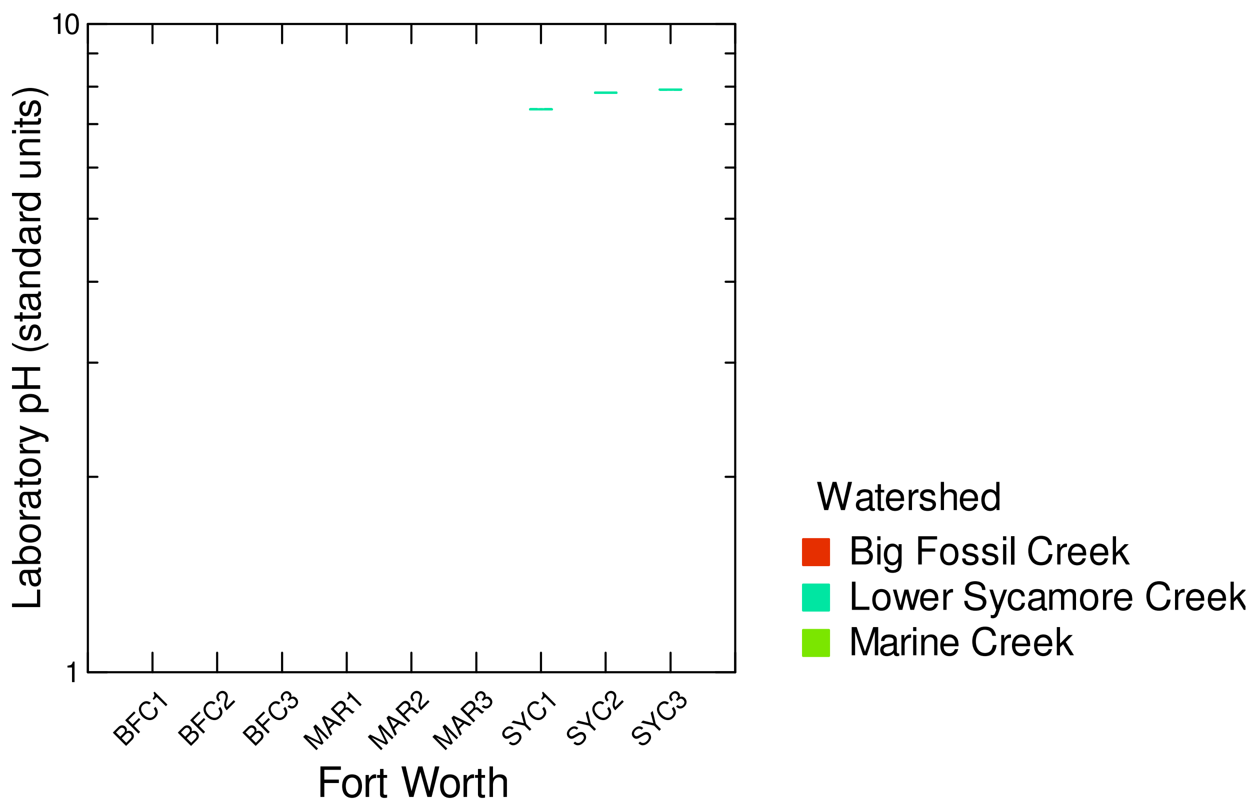

10
1
Field pH (standard units)
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek

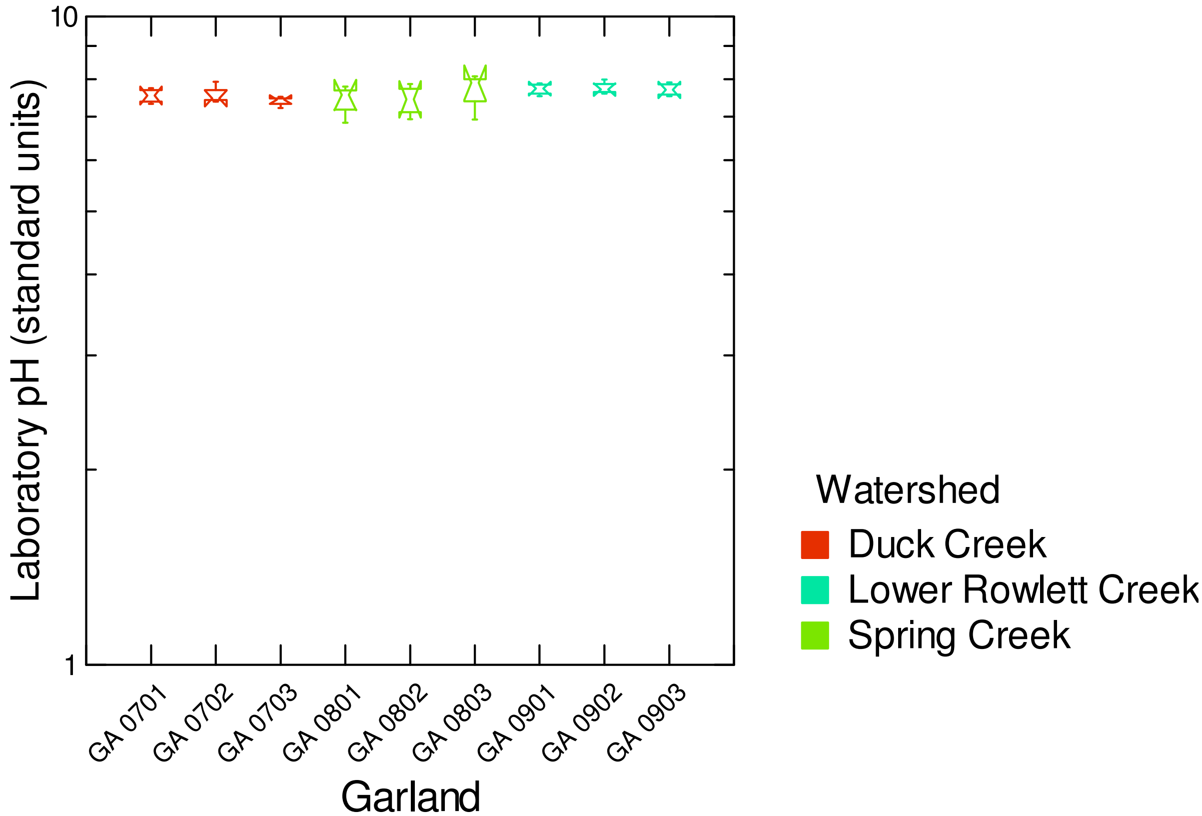

10
1
Field pH (standard units)
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek


10
1
Field pH (standard units)
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek

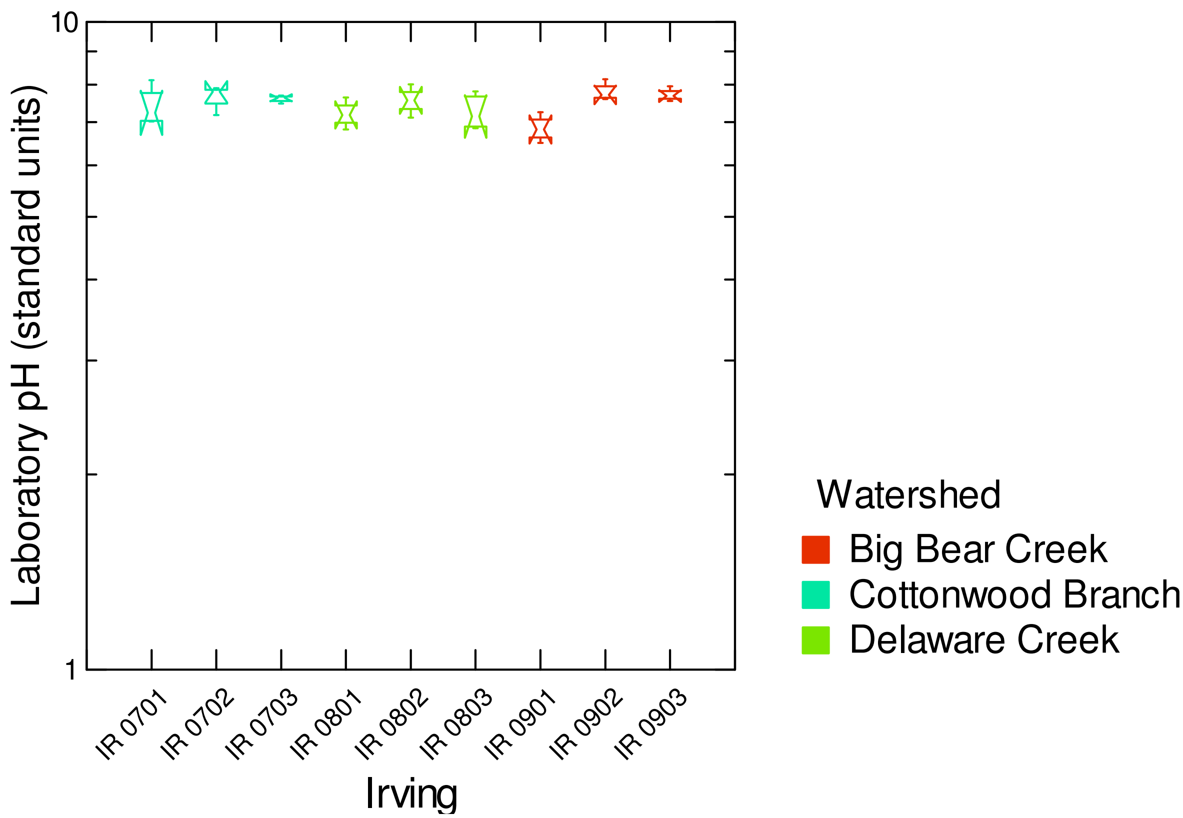

10
1
Laboratory pH (standard units)
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek


10
1
Laboratory pH (standard units)
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
Dallas - Dallas East Bank

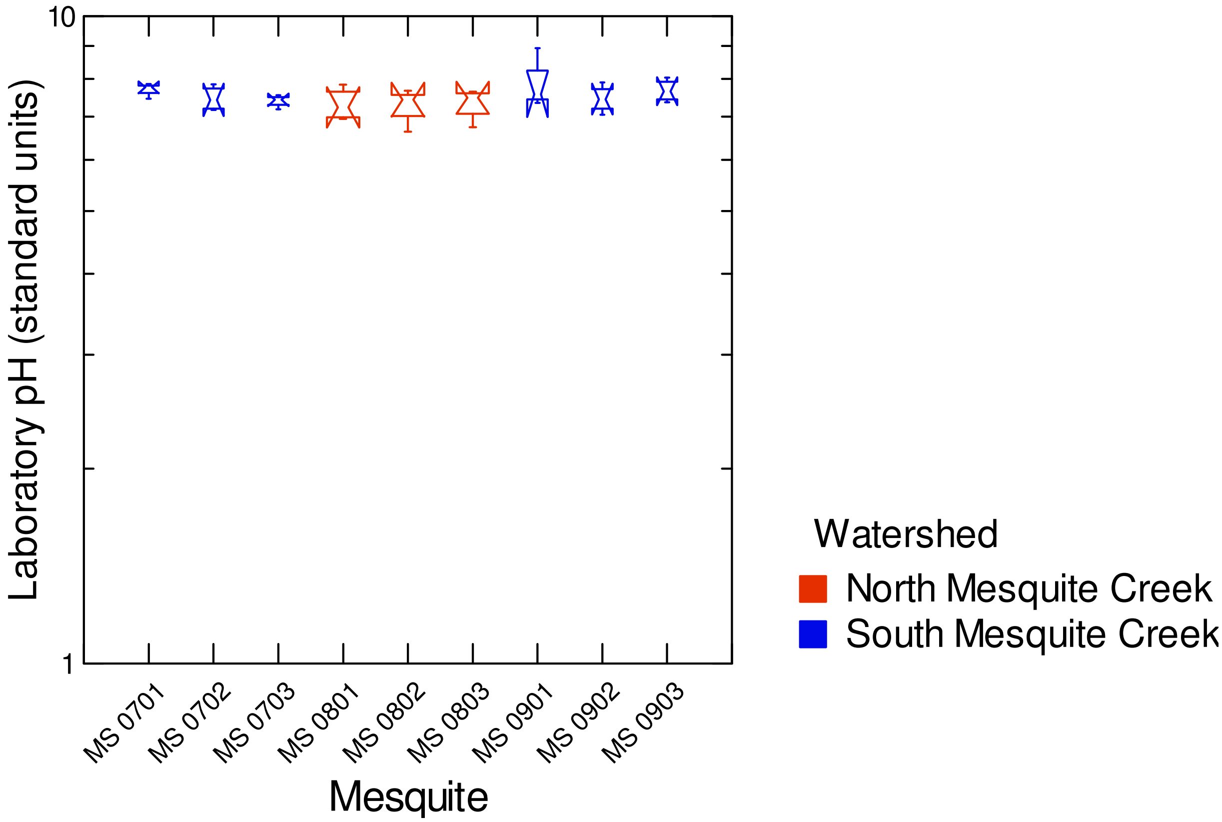

10
1
Laboratory pH (standard units)
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek



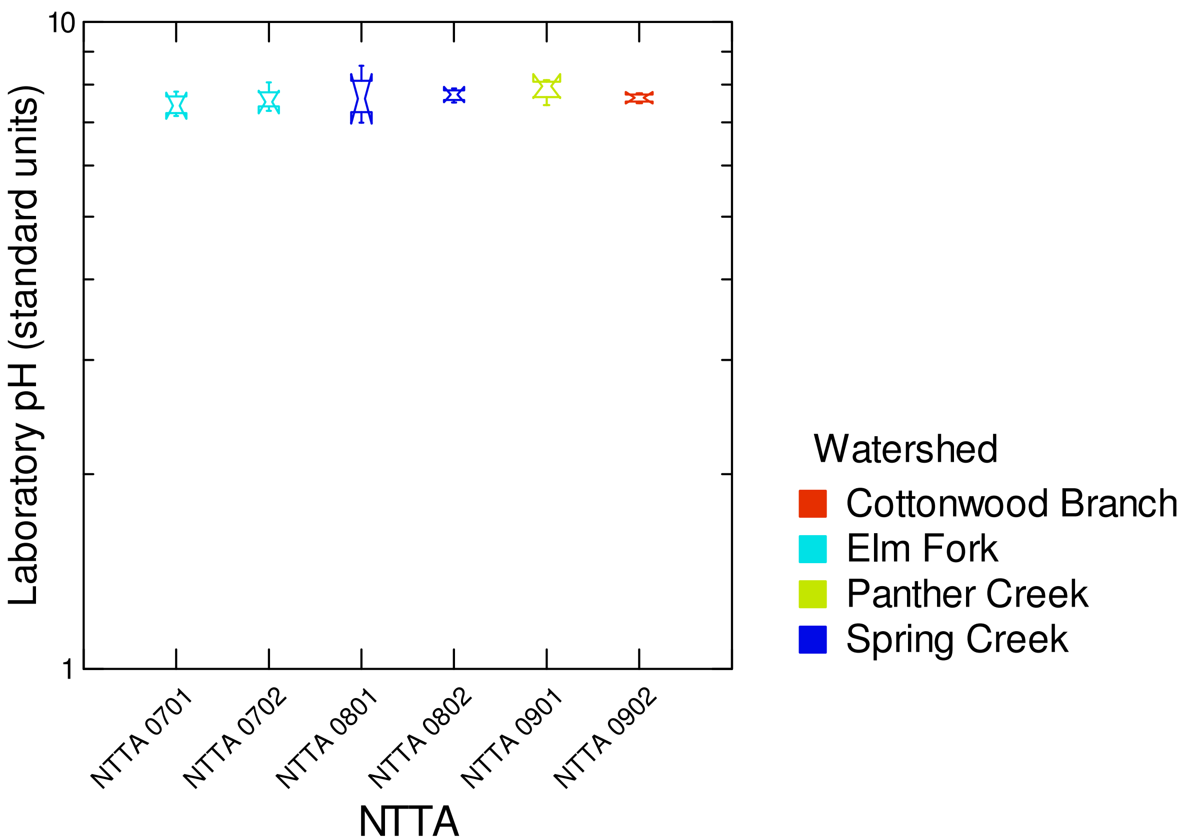
10
1
Laboratory pH (standard units)
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek



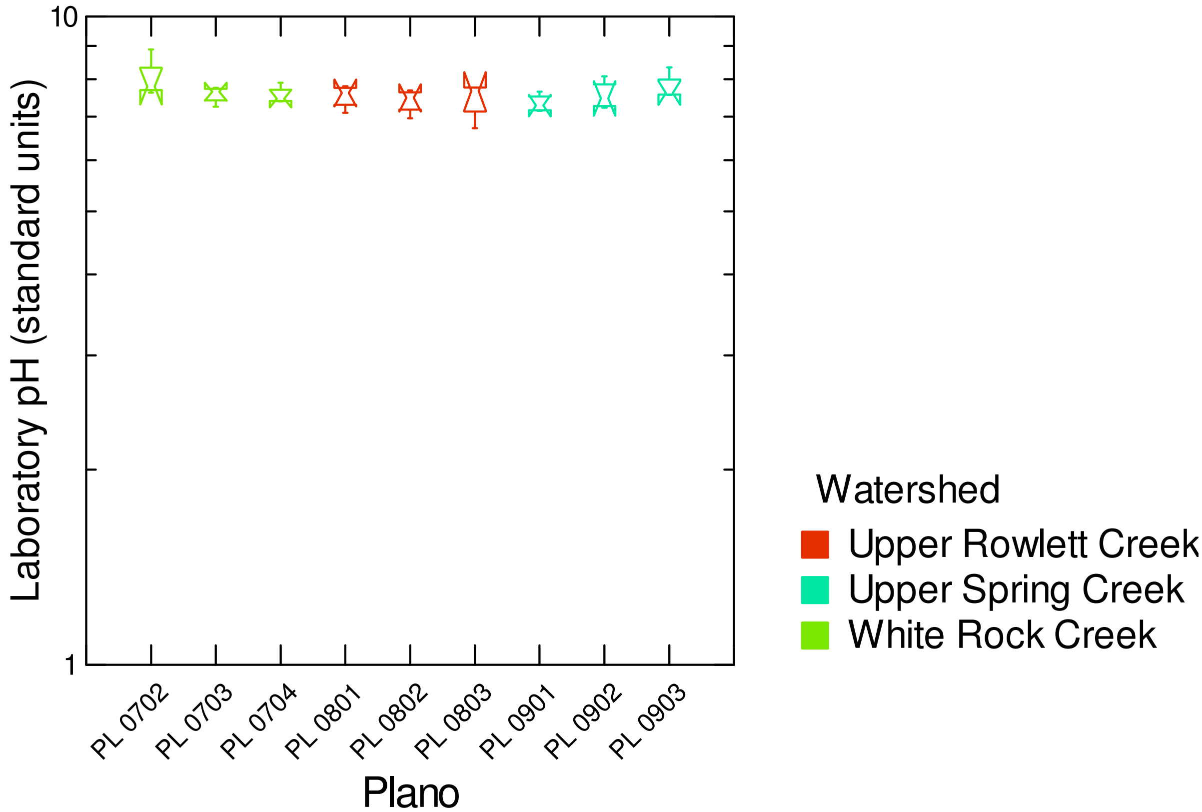
10
1
Laboratory pH (standard units)
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek



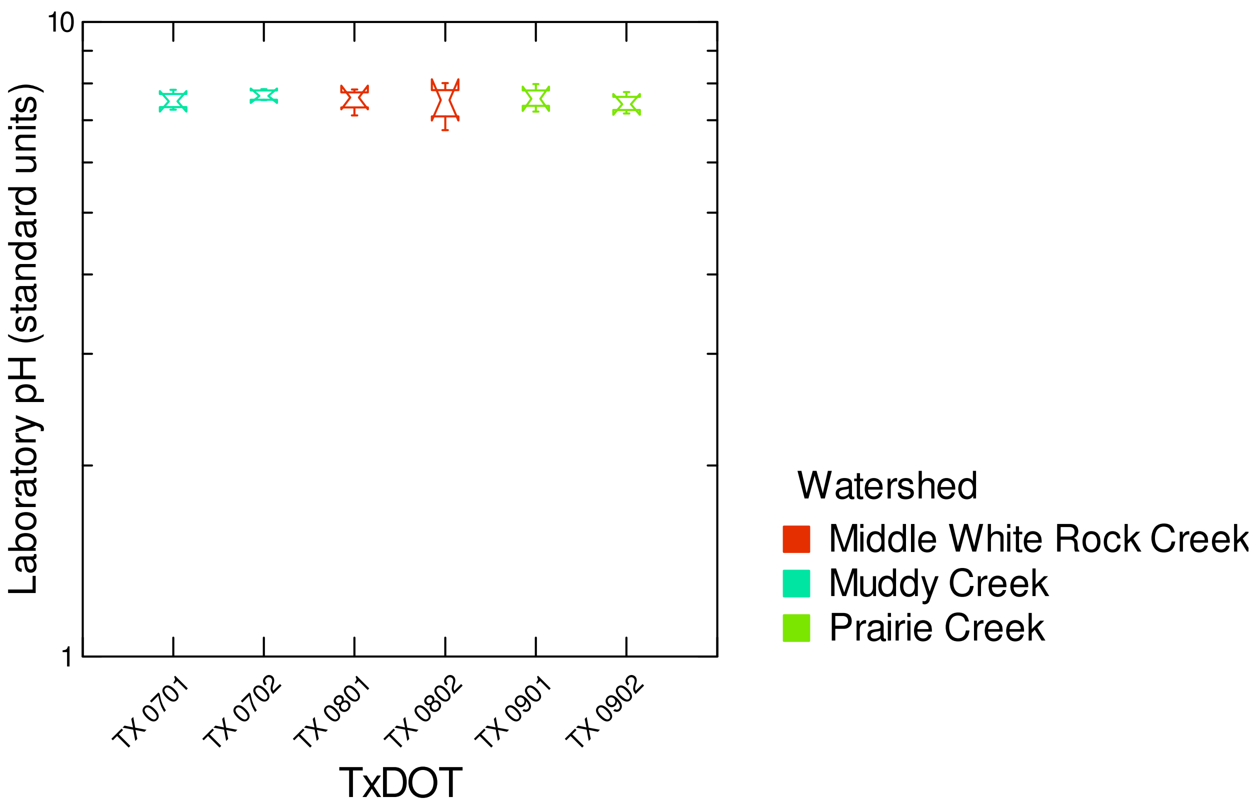
10
1
Laboratory pH (standard units)
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek



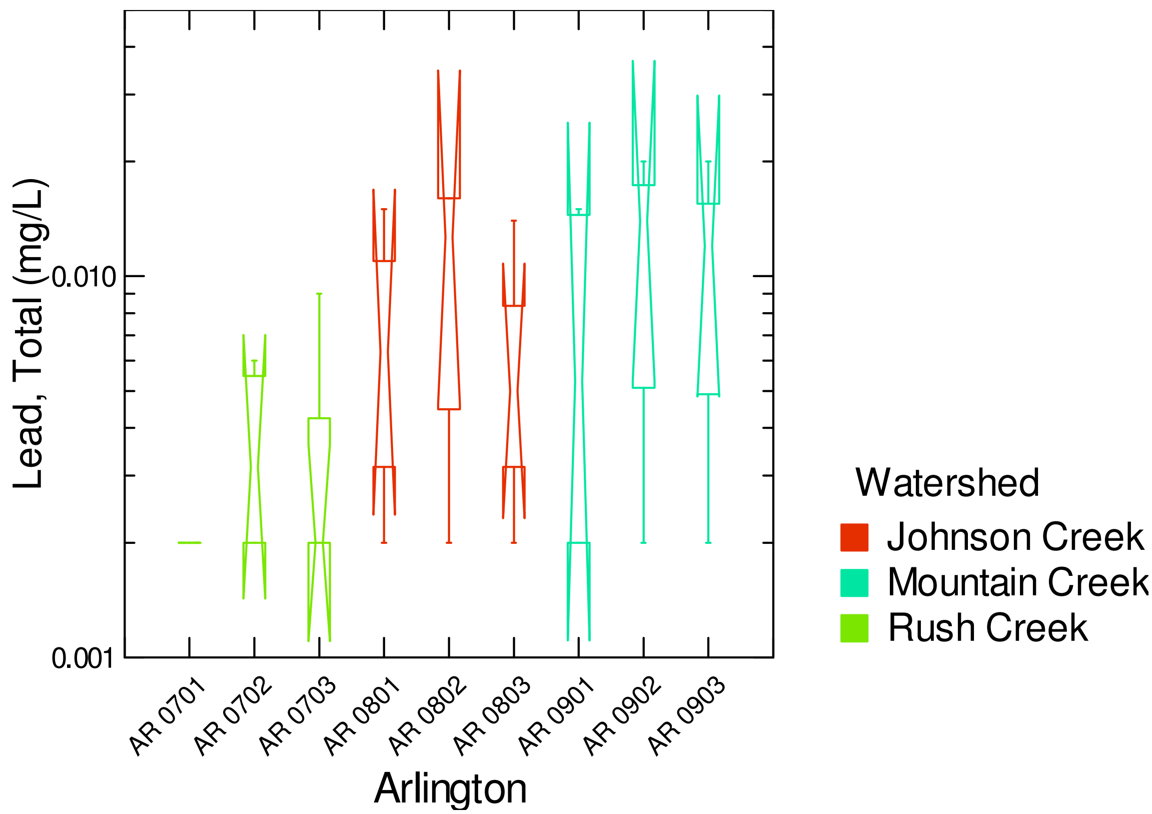
10
1
Laboratory pH (standard units)
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek



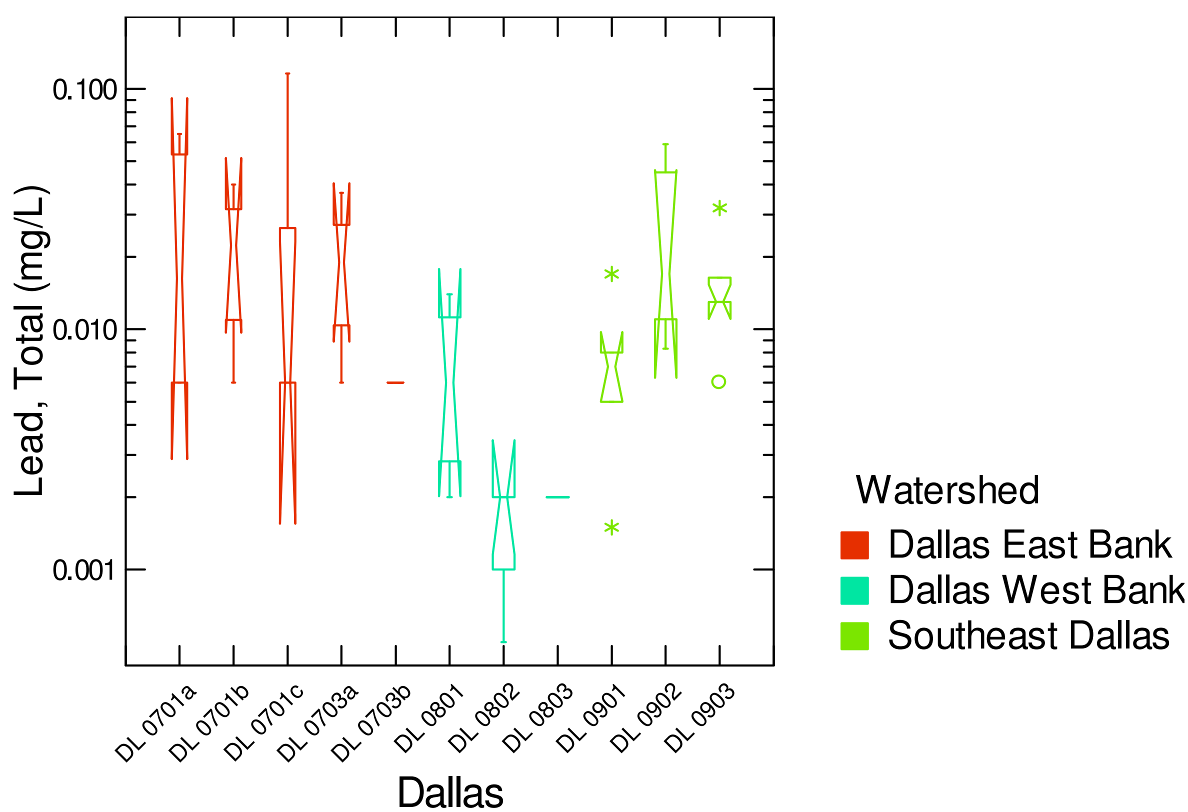
10
1
Laboratory pH (standard units)
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek



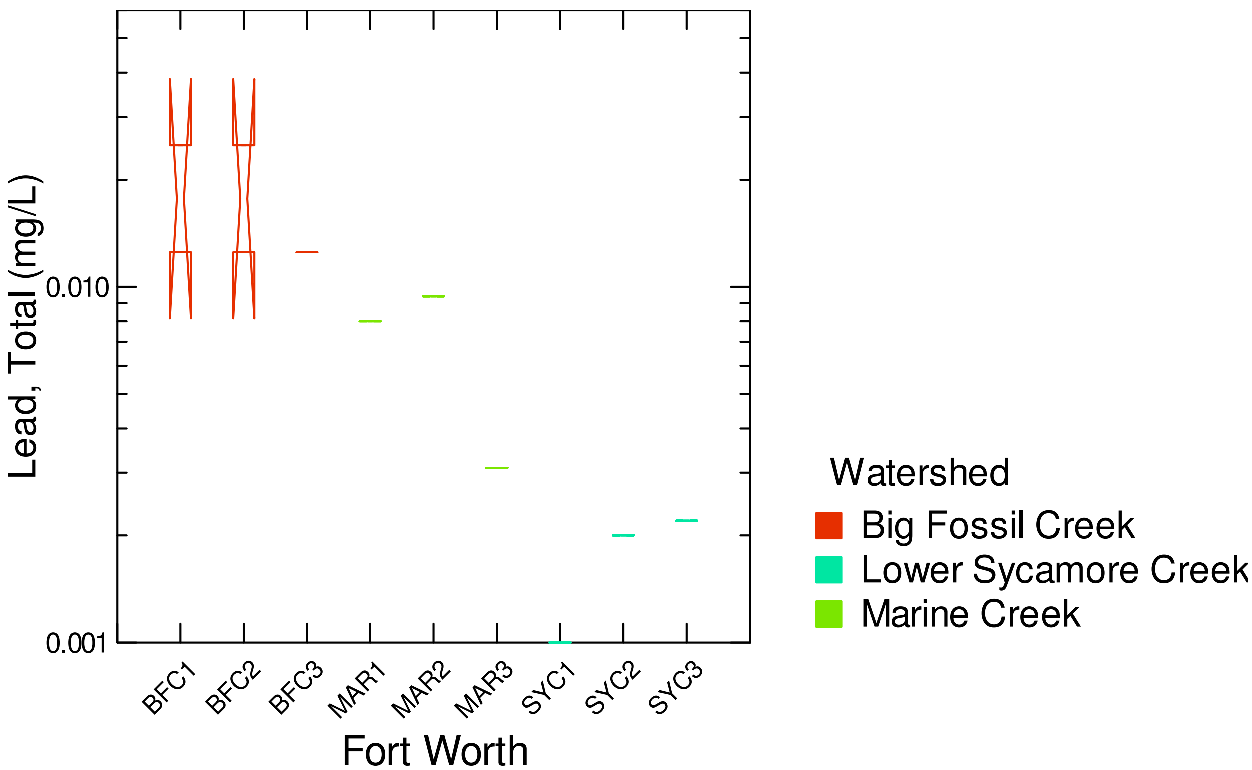
10
1
Laboratory pH (standard units)
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek

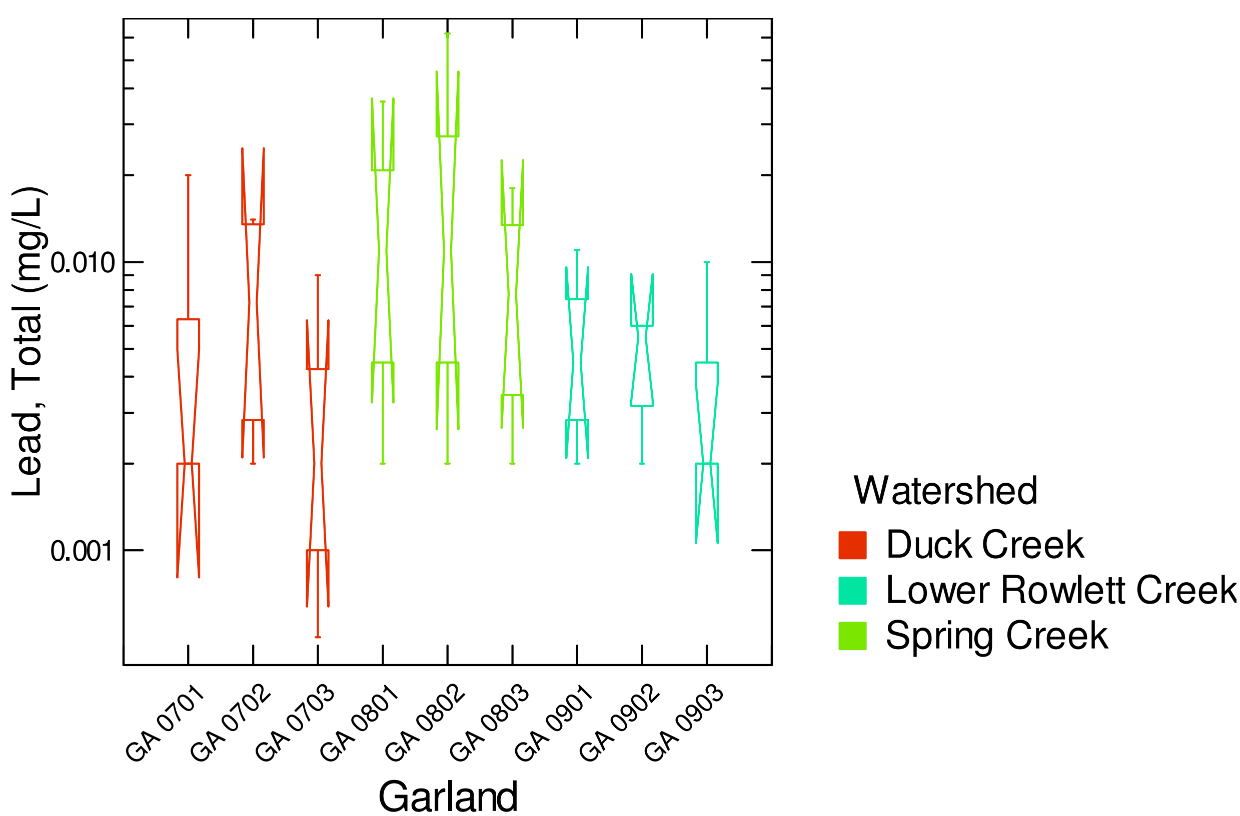


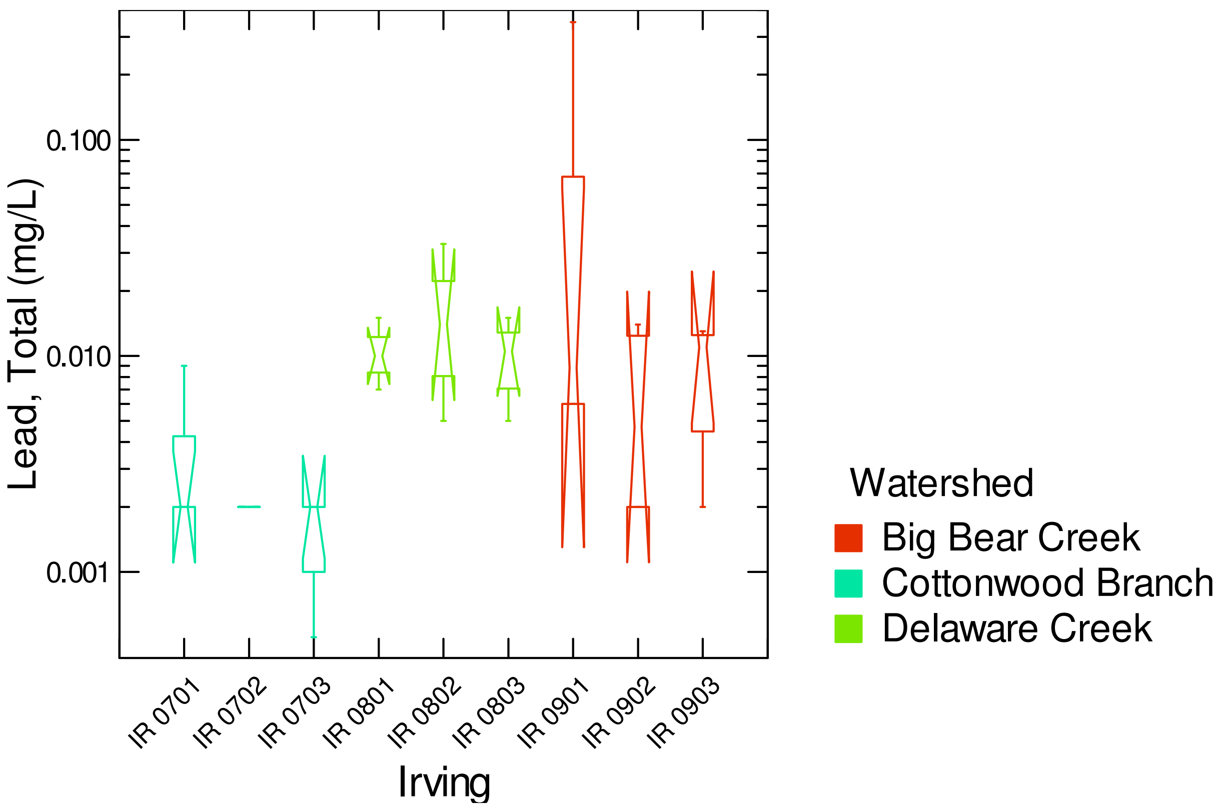
Lead, Total (mg/L)
0.010
0.001
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek



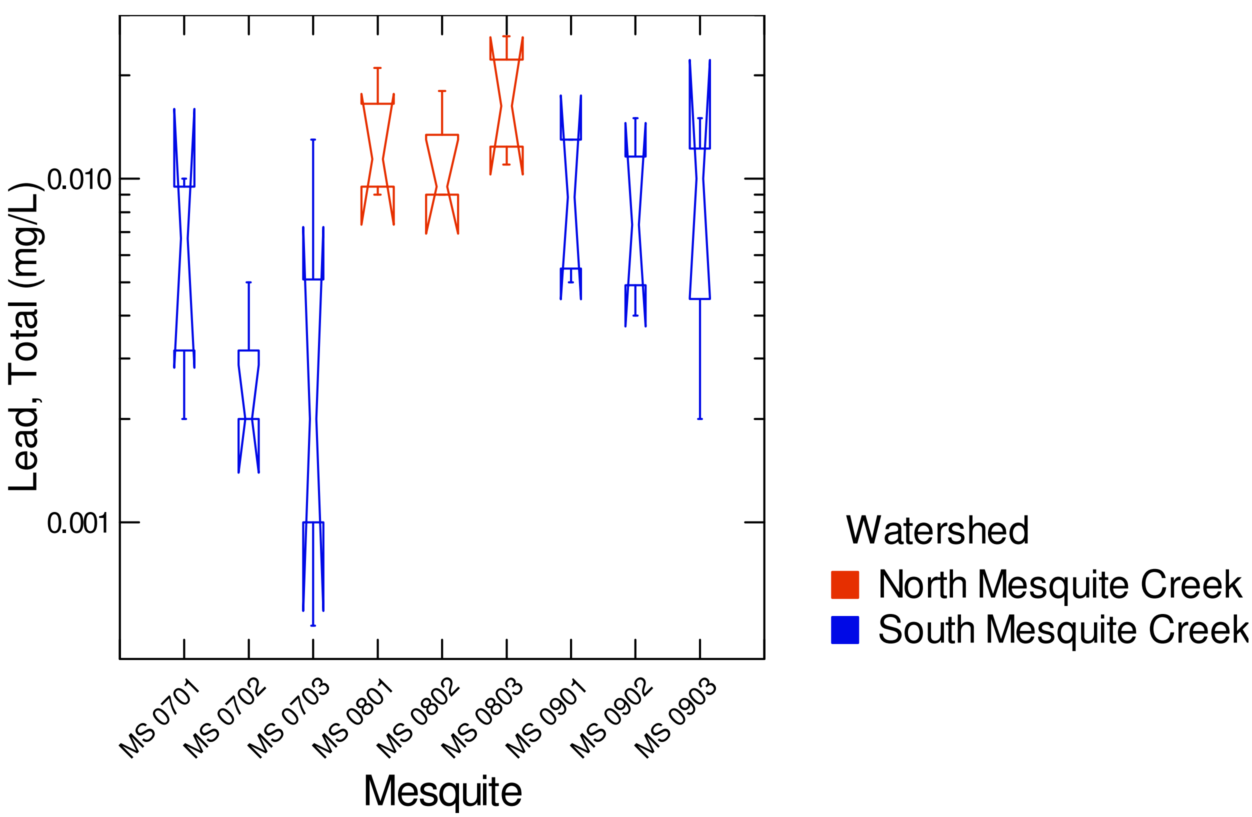
Lead, Total (mg/L)
0.100
0.010
0.001
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas


Lead, Total (mg/L)
0.010
0.001
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek

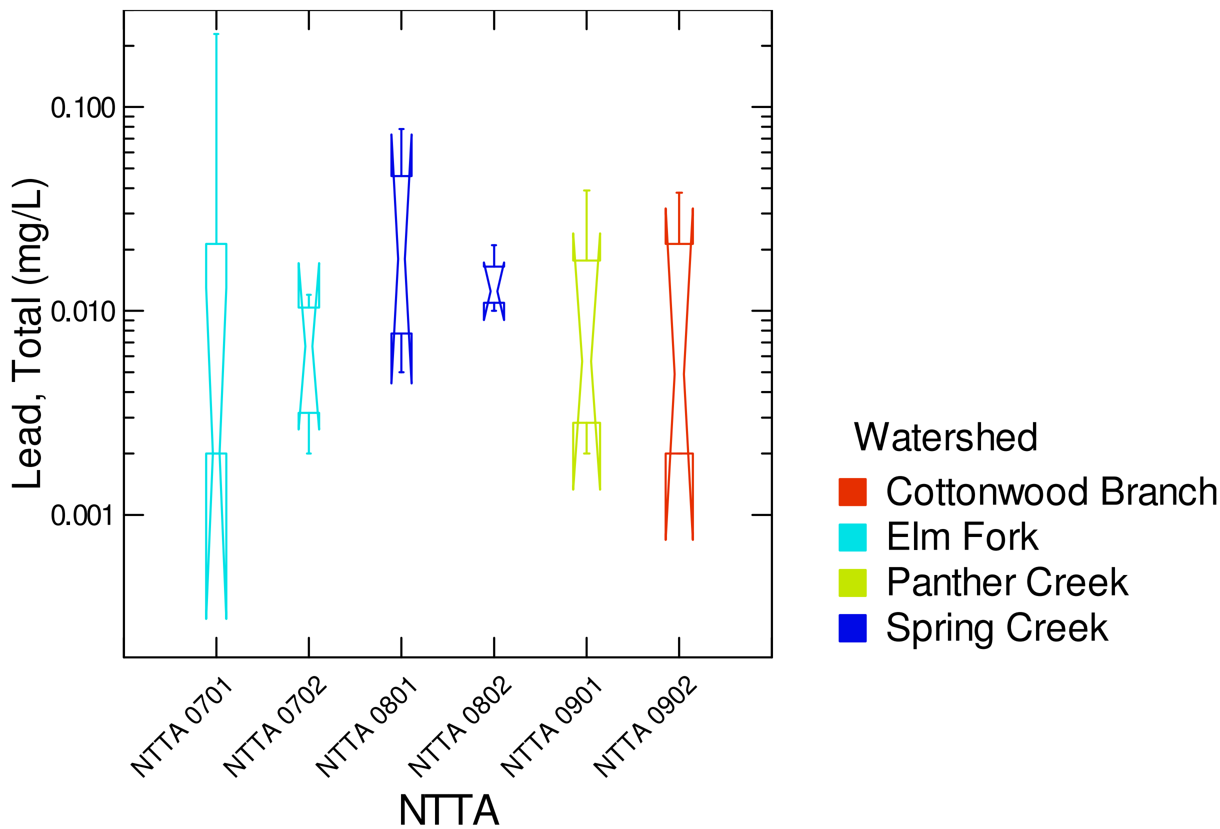

Lead, Total (mg/L)
0.010
0.001
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek

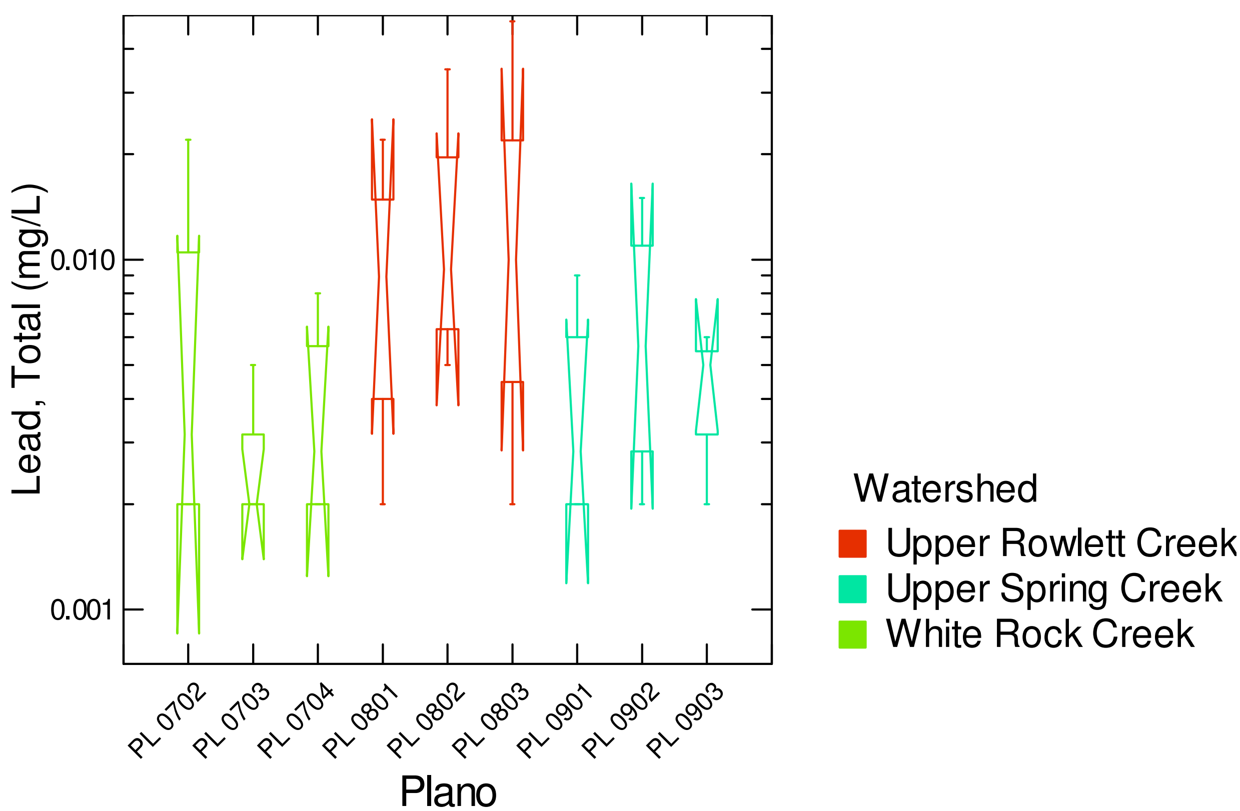


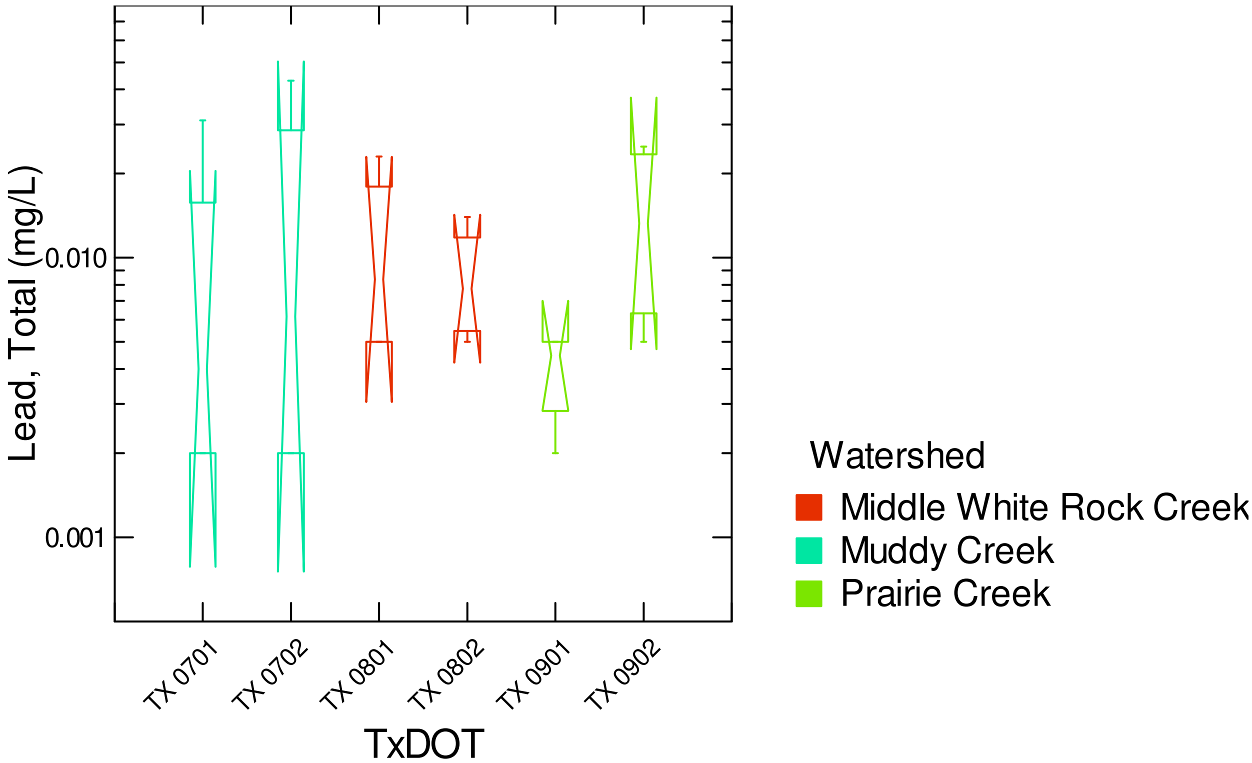
Lead, Total (mg/L)
0.100
0.010
0.001
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek



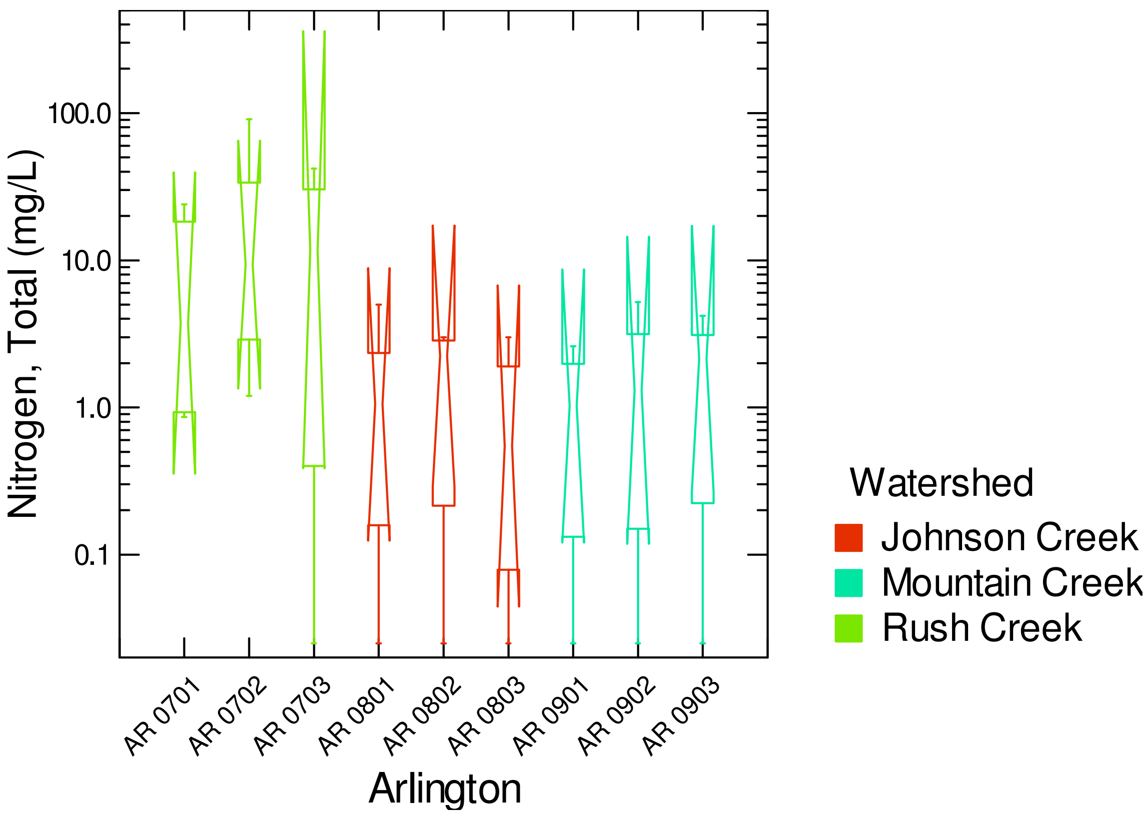
Lead, Total (mg/L)
0.010
0.001
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek


Lead, Total (mg/L)
0.100
0.010
0.001
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek

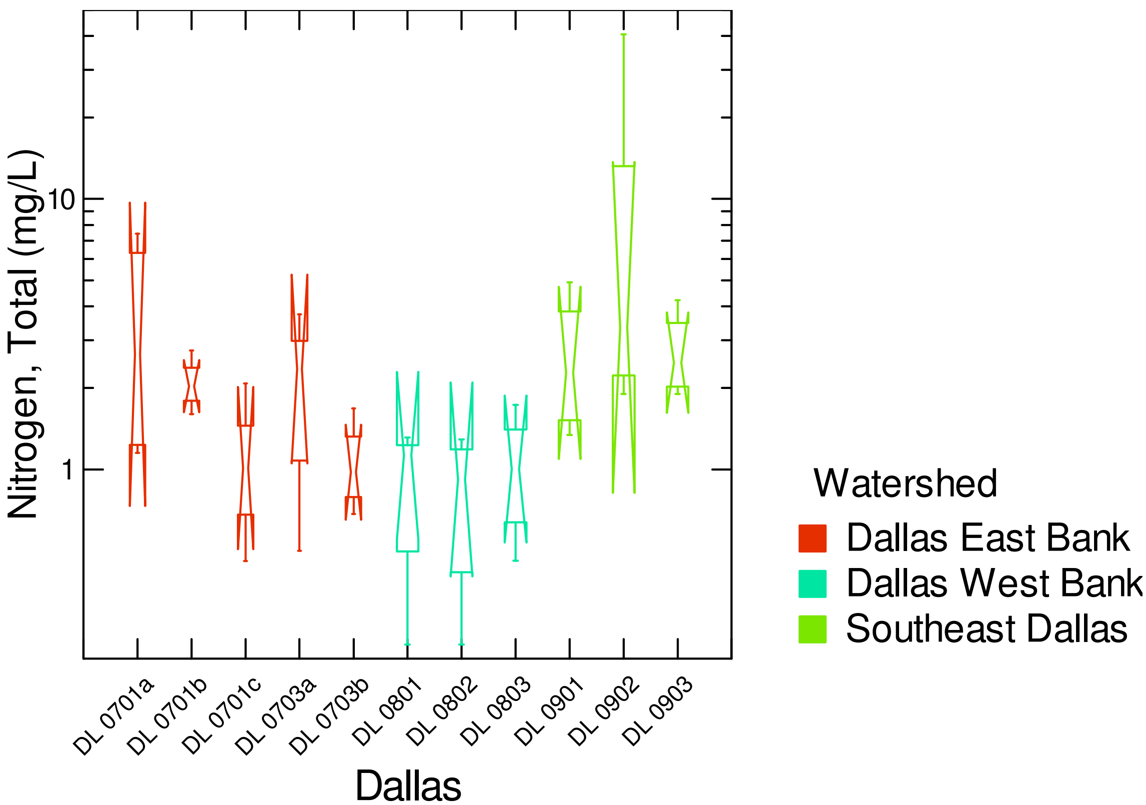

Lead, Total (mg/L)
0.010
0.001
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek

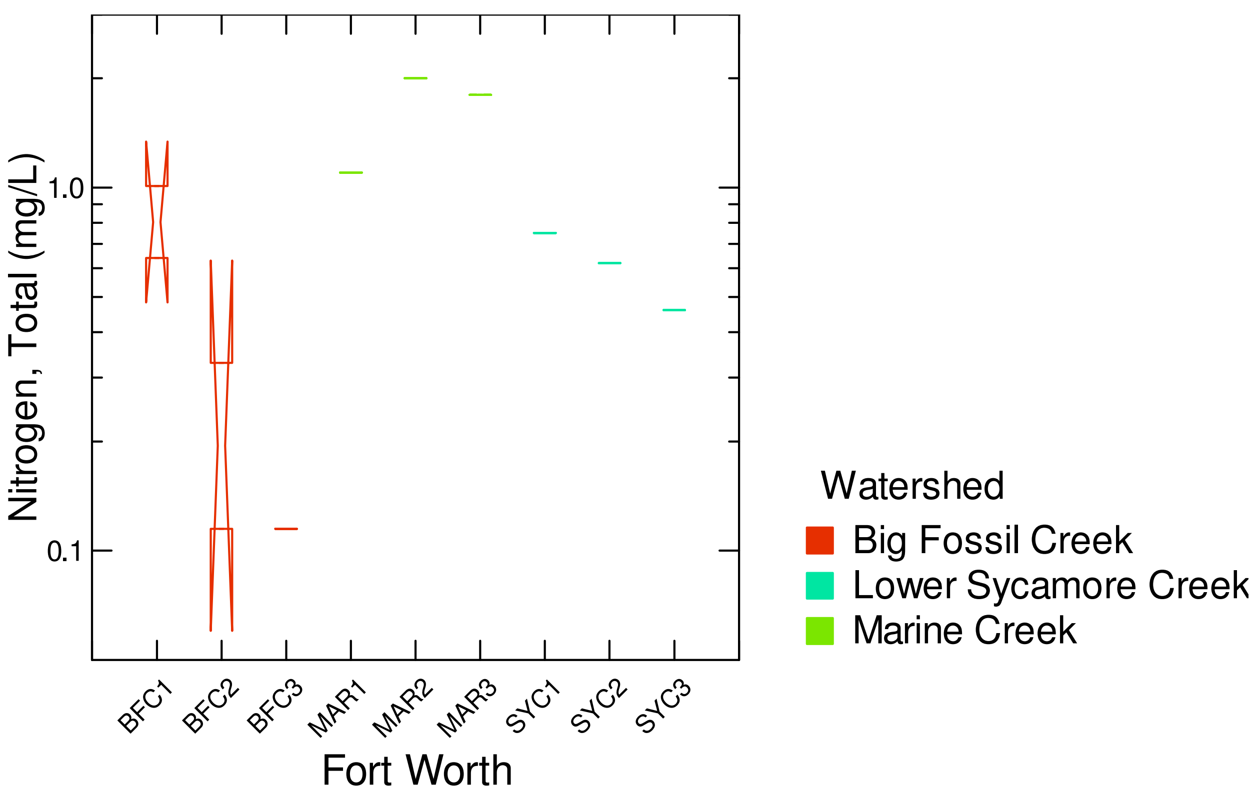


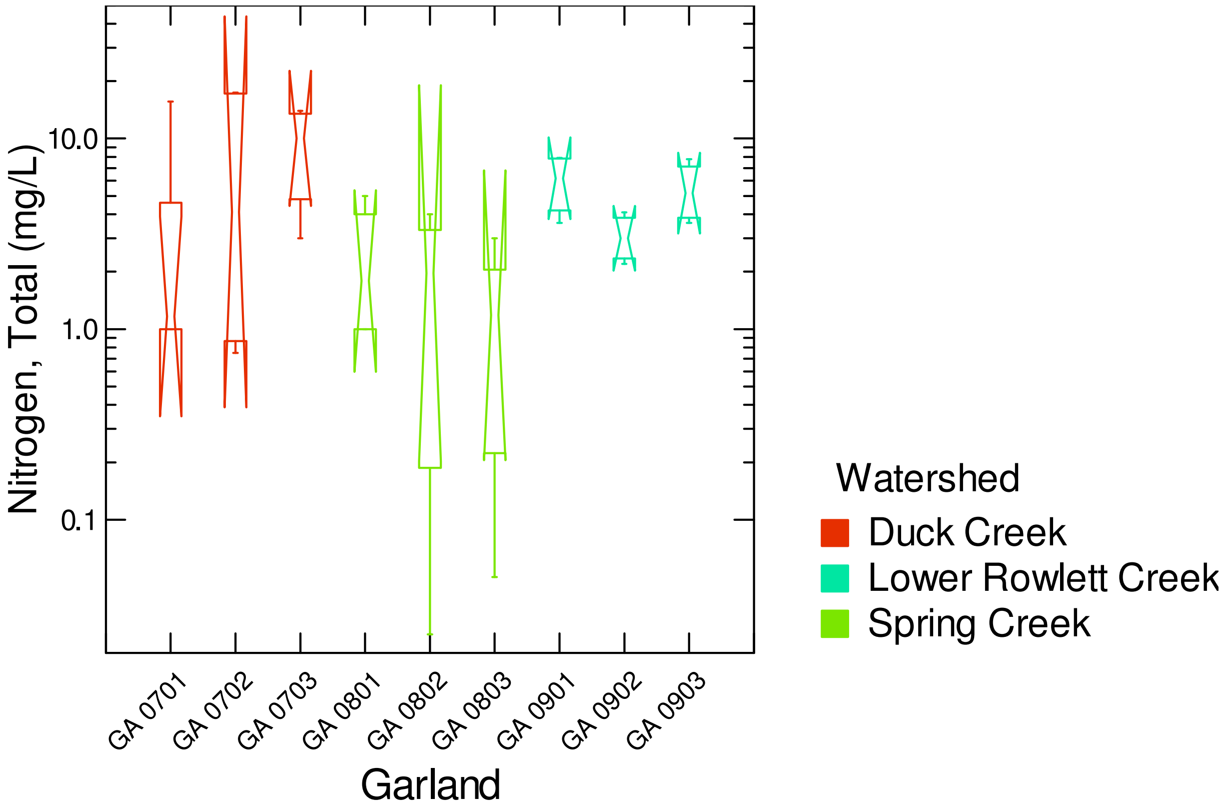
Lead, Total (mg/L)
0.010
0.001
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek

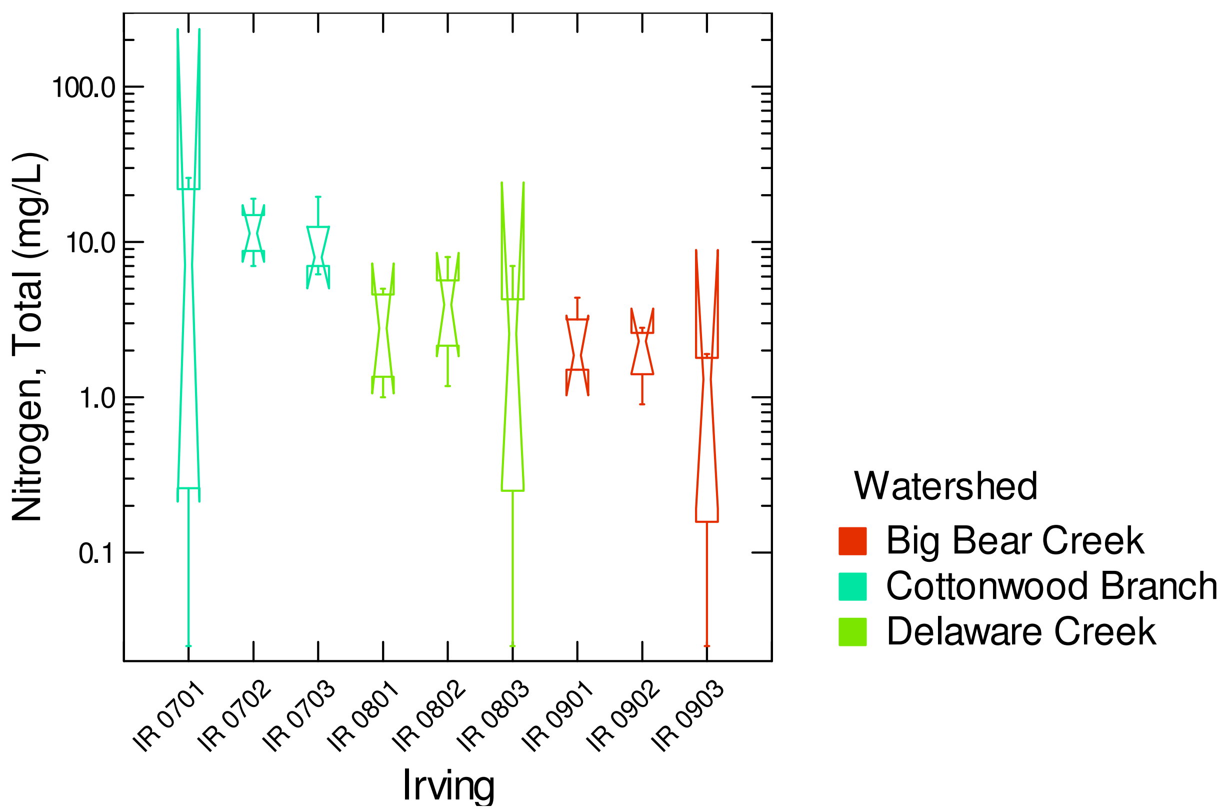


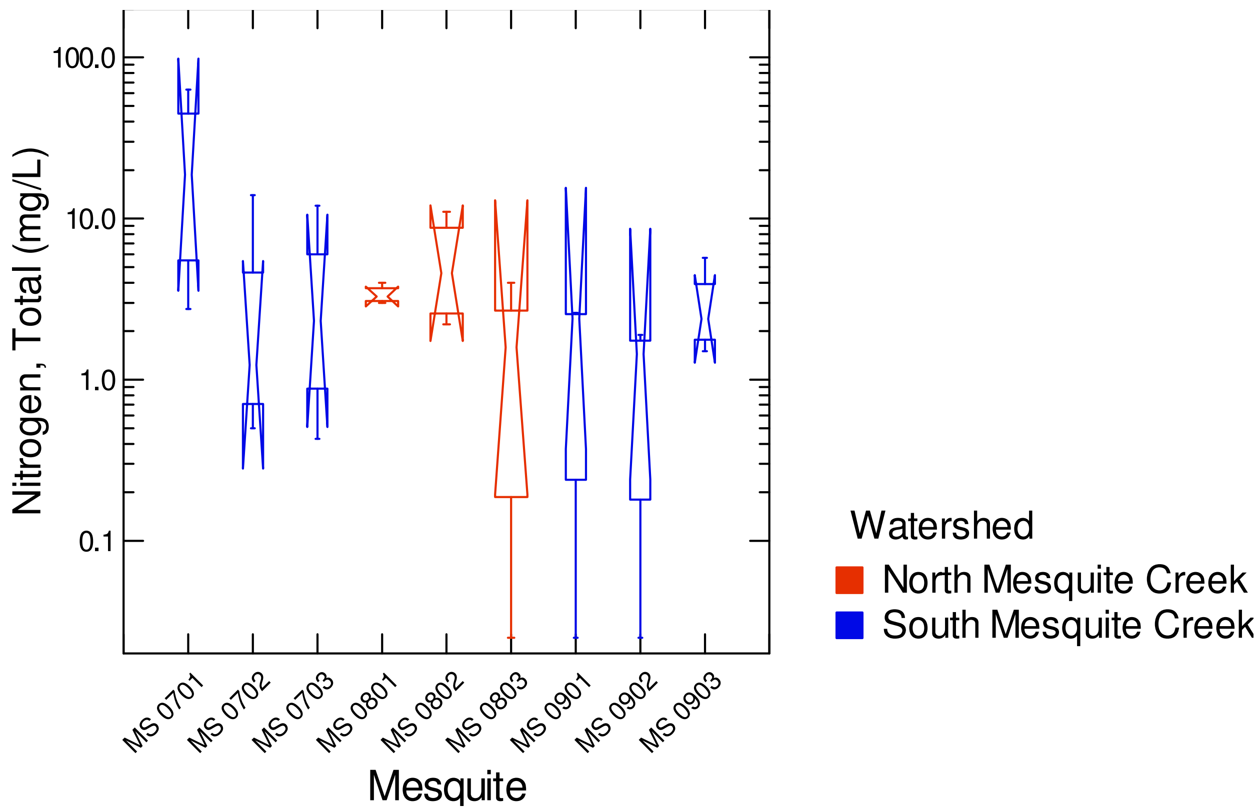
Nitrogen, Total (mg/L)
100.0
10.0
1.0
0.1
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek


Nitrogen, Total (mg/L)
10
1
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas

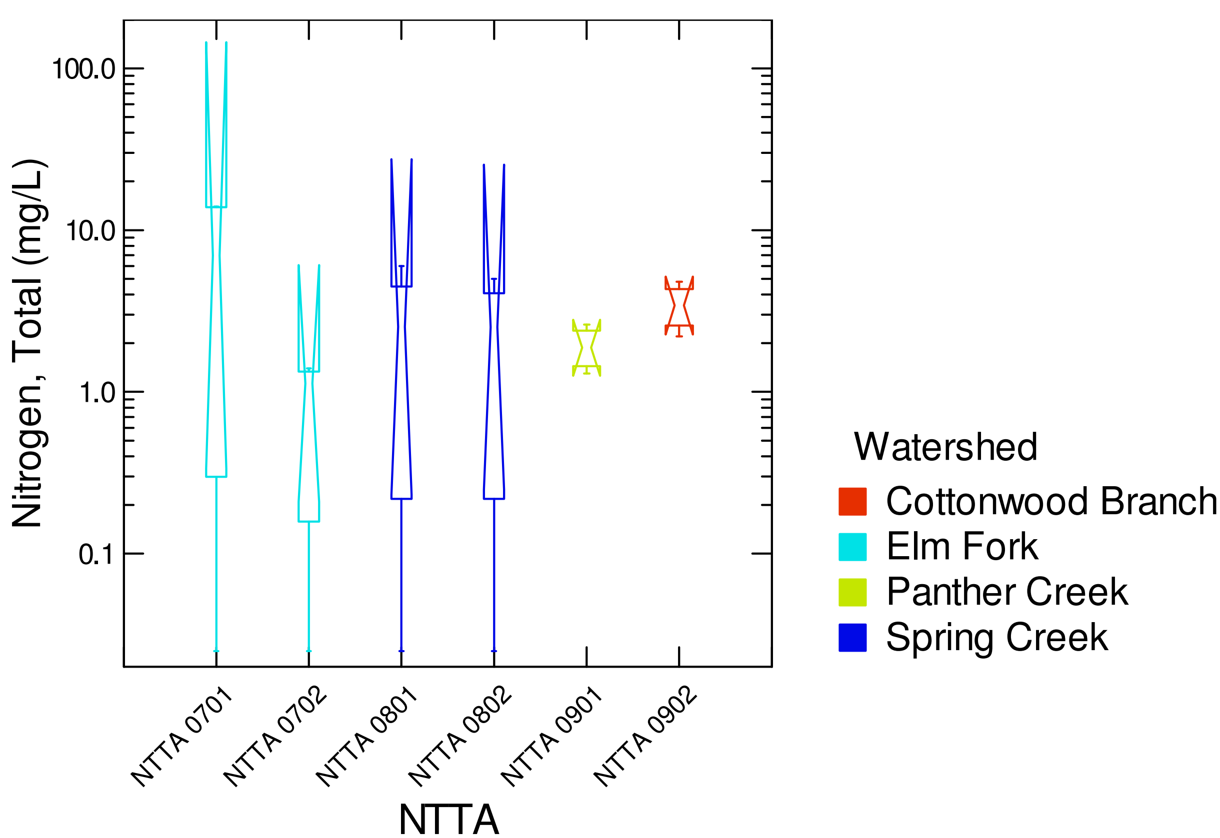

Nitrogen, Total (mg/L)
1.0
0.1
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek


Nitrogen, Total (mg/L)
10.0
1.0
0.1
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek

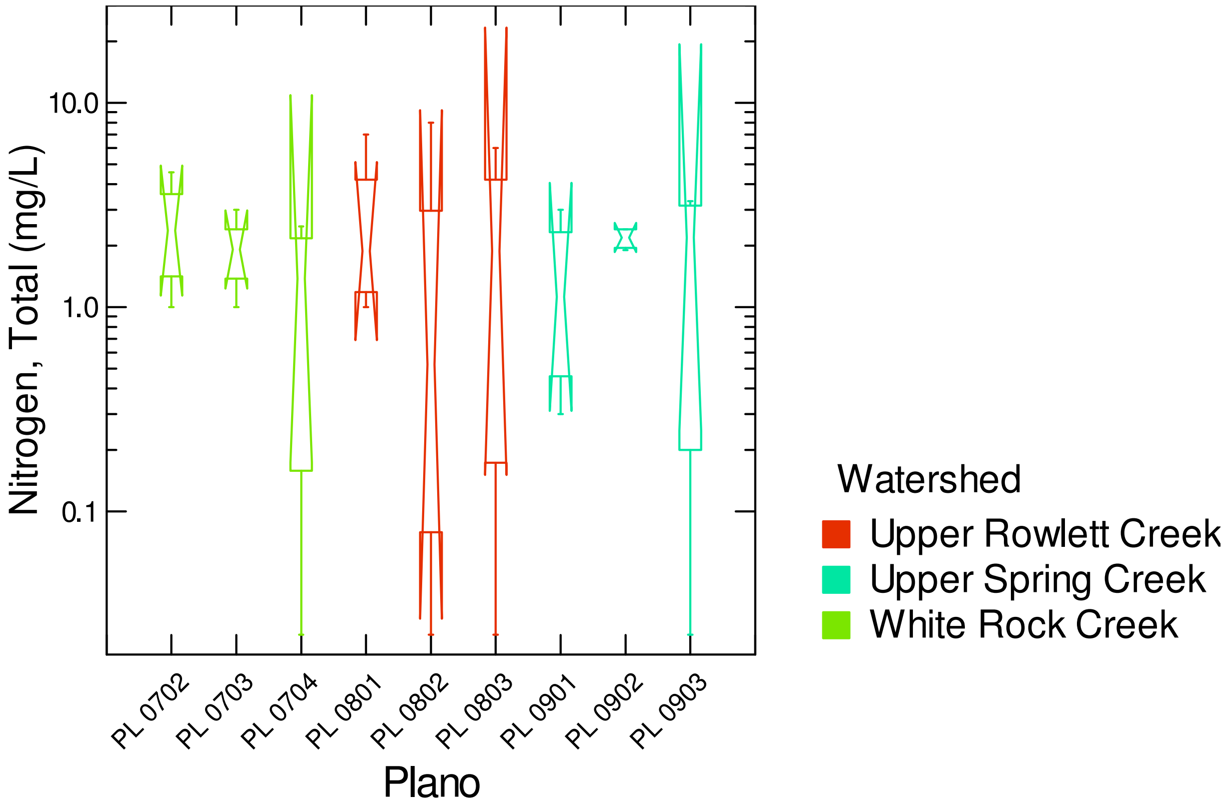

Nitrogen, Total (mg/L)
100.0
10.0
1.0
0.1
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek

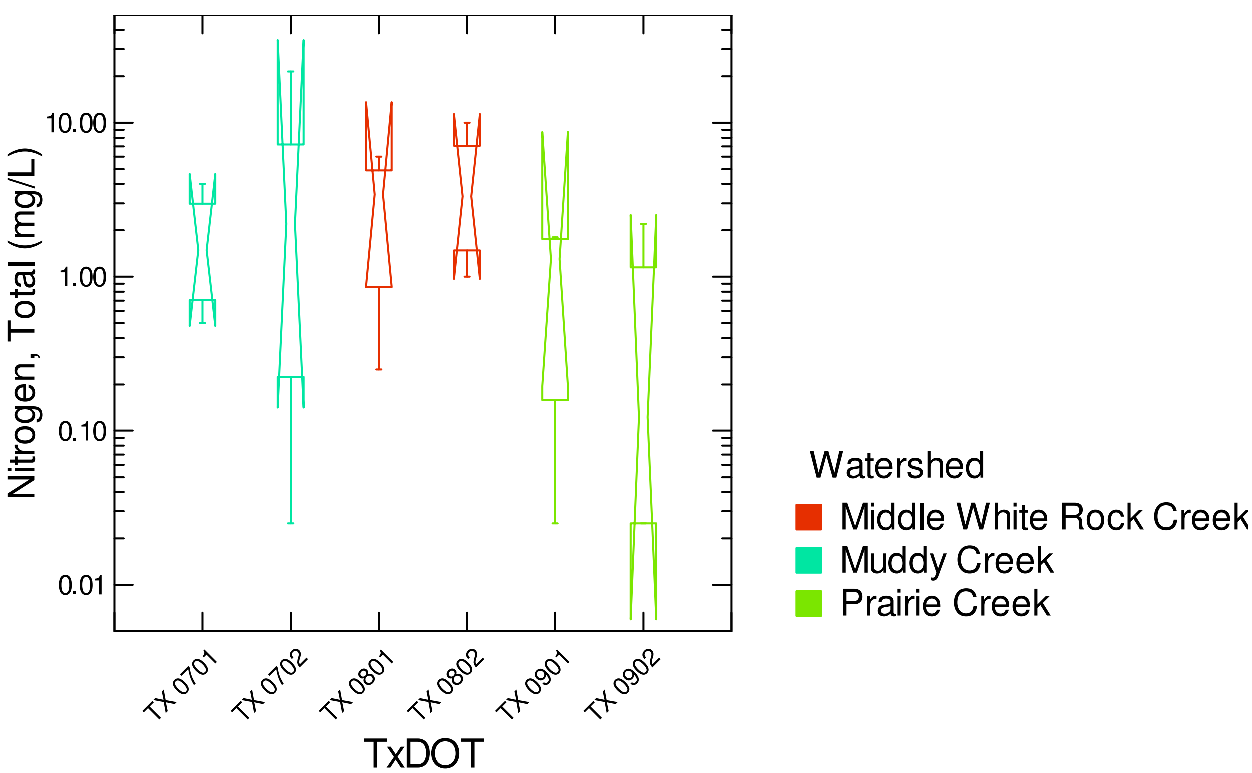


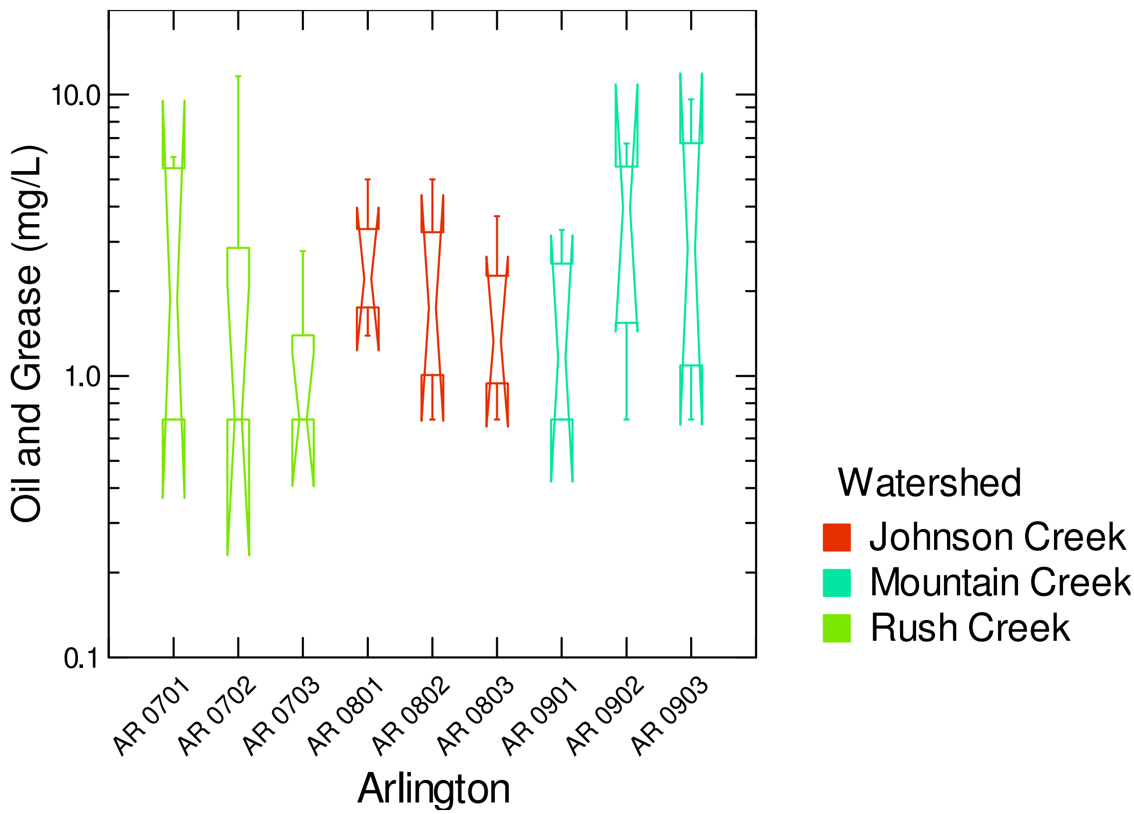
Nitrogen, Total (mg/L)
100.0
10.0
1.0
0.1
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek



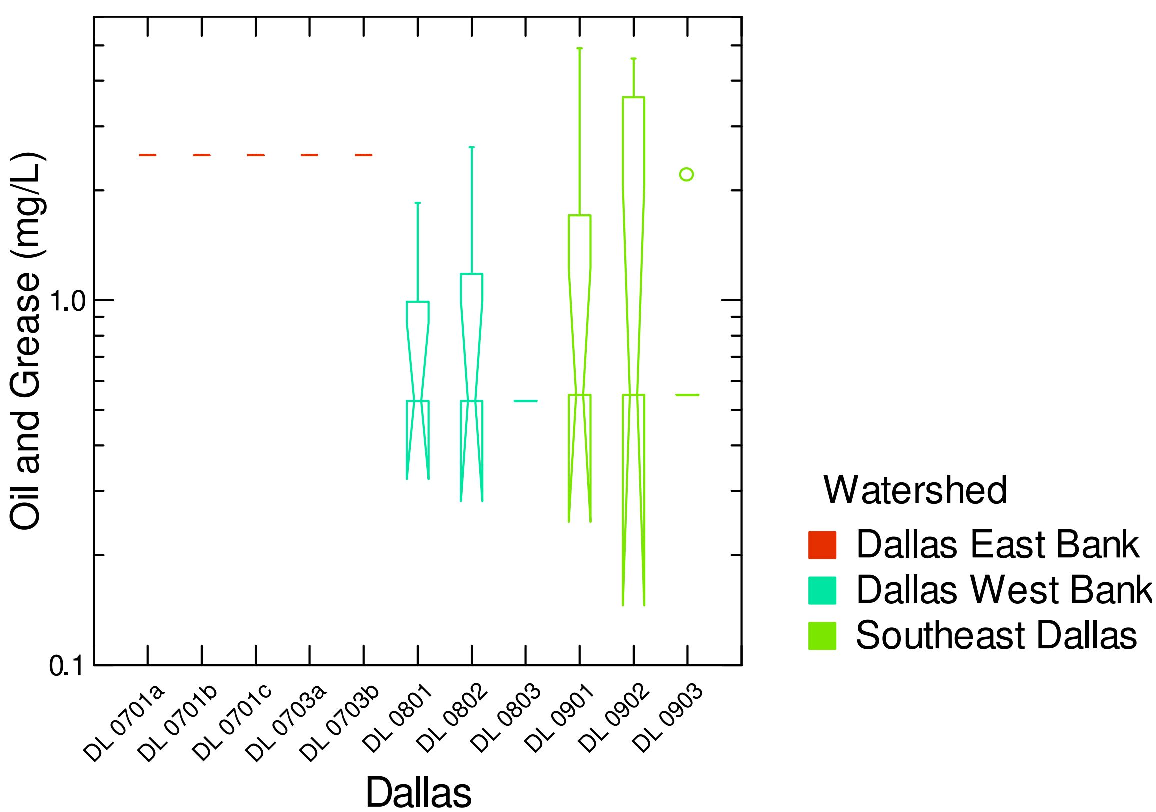
Nitrogen, Total (mg/L)
100.0
10.0
1.0
0.1
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek


Nitrogen, Total (mg/L)
10.0
1.0
0.1
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek

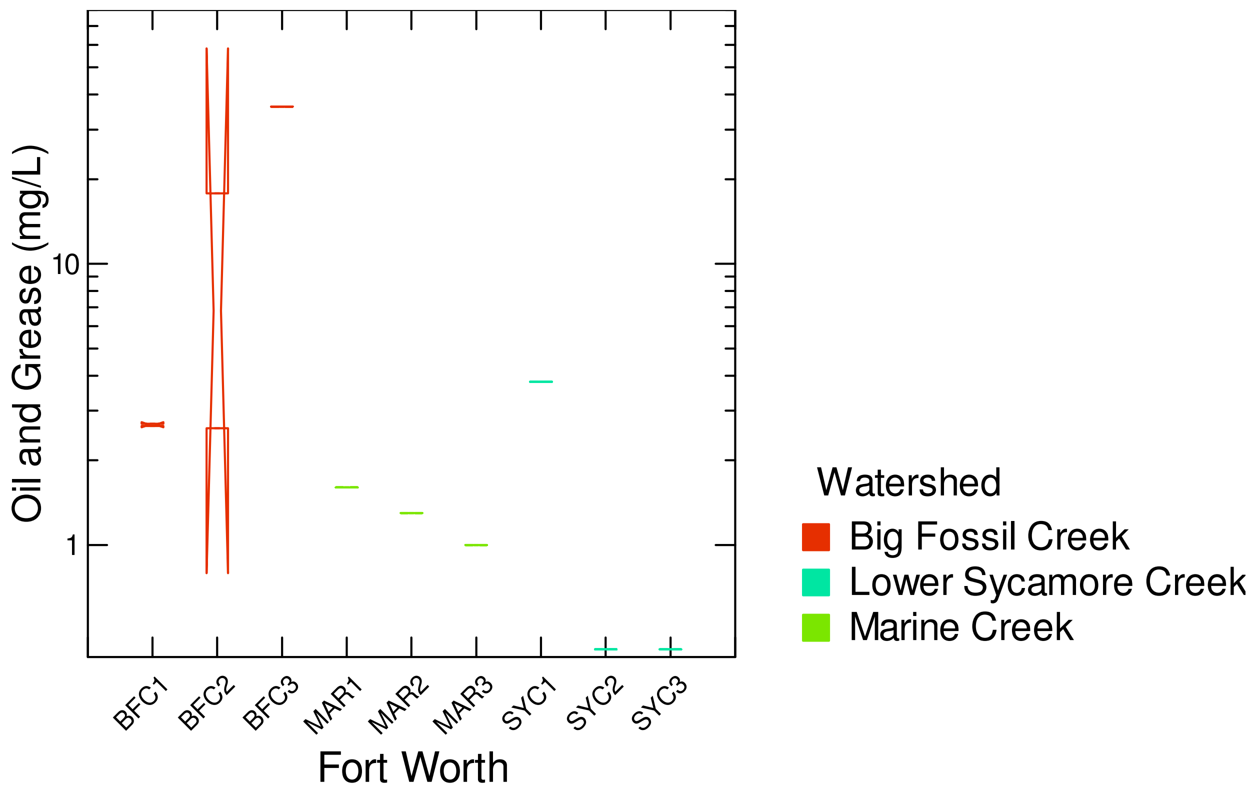

Nitrogen, Total (mg/L)
10.00
1.00
0.10
0.01
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek



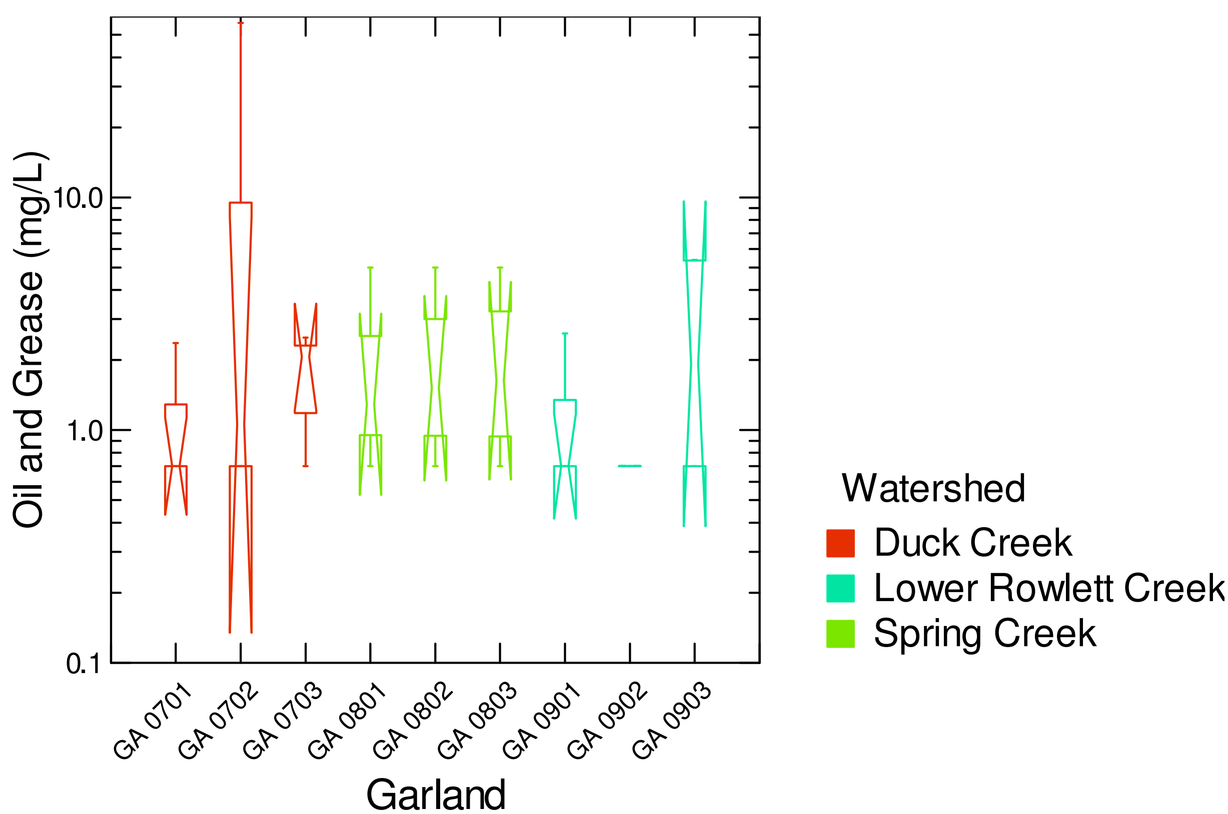
Oil and Grease (mg/L)
10.0
1.0
0.1
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek



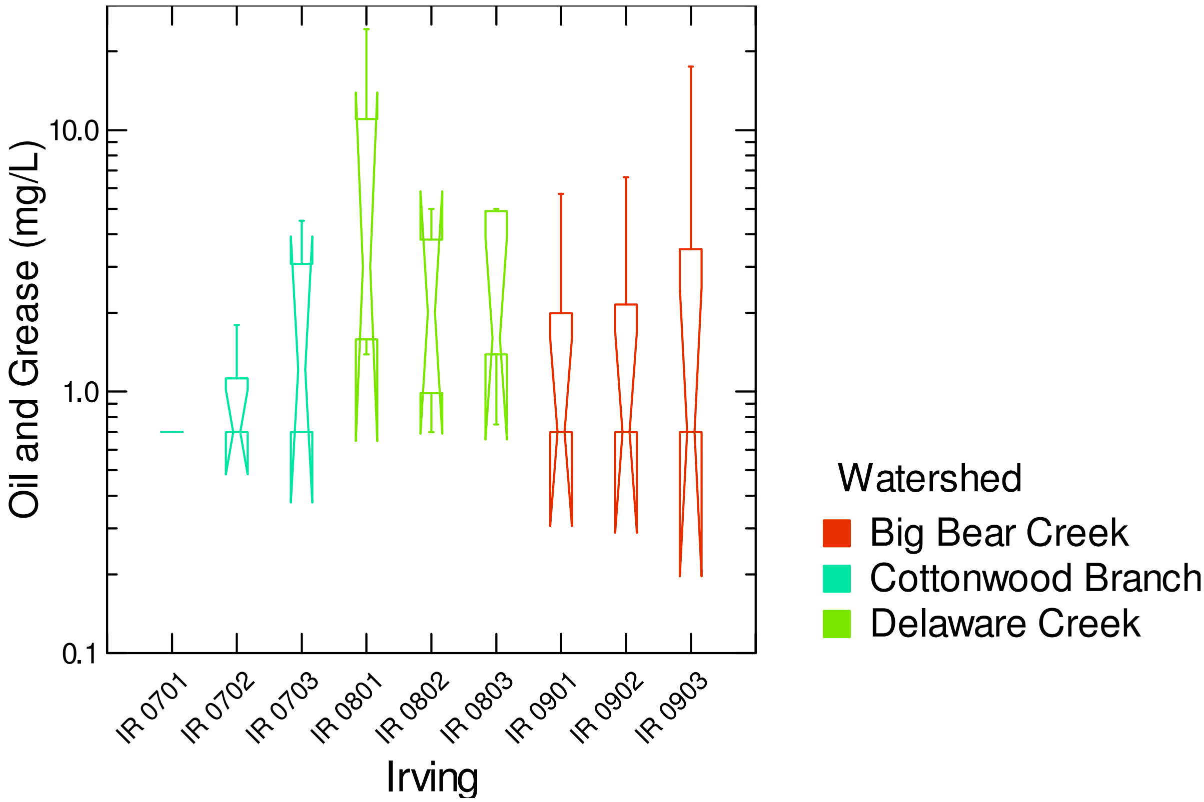
Oil and Grease (mg/L)
1.0
0.1
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas

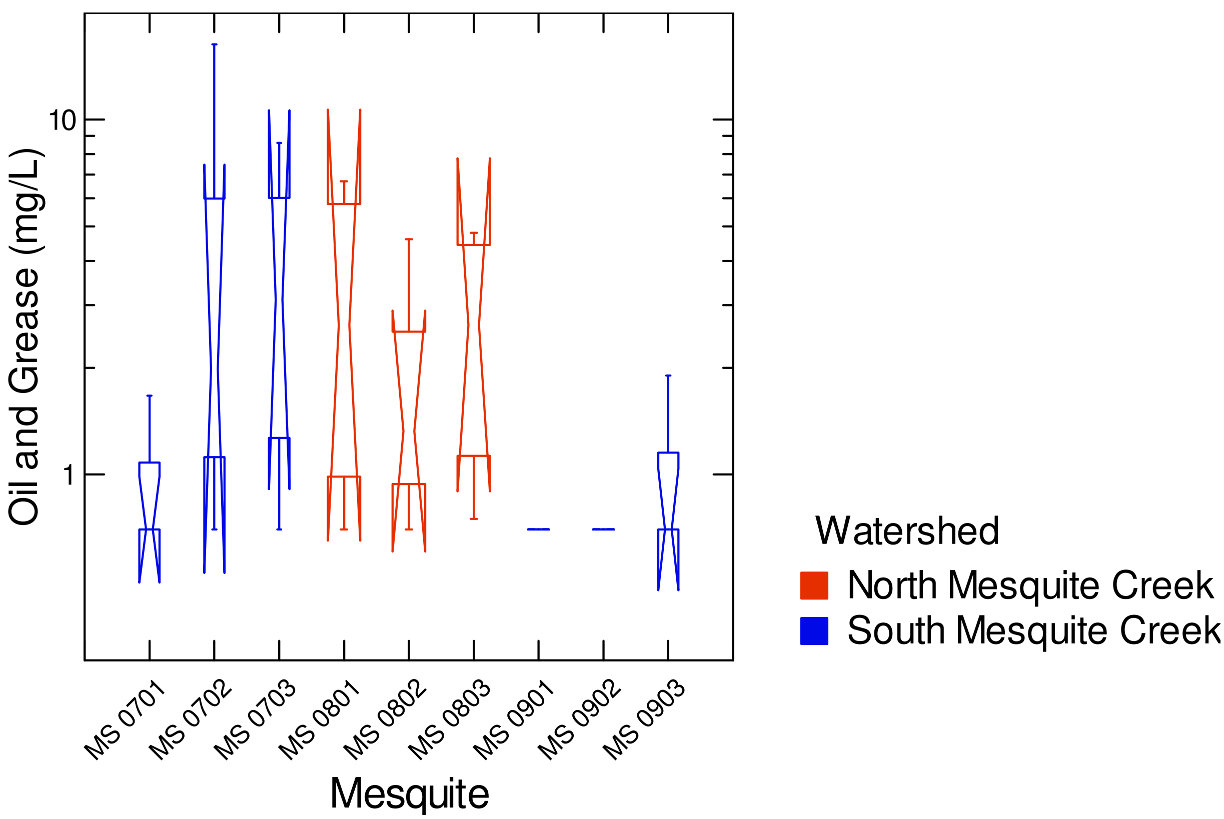


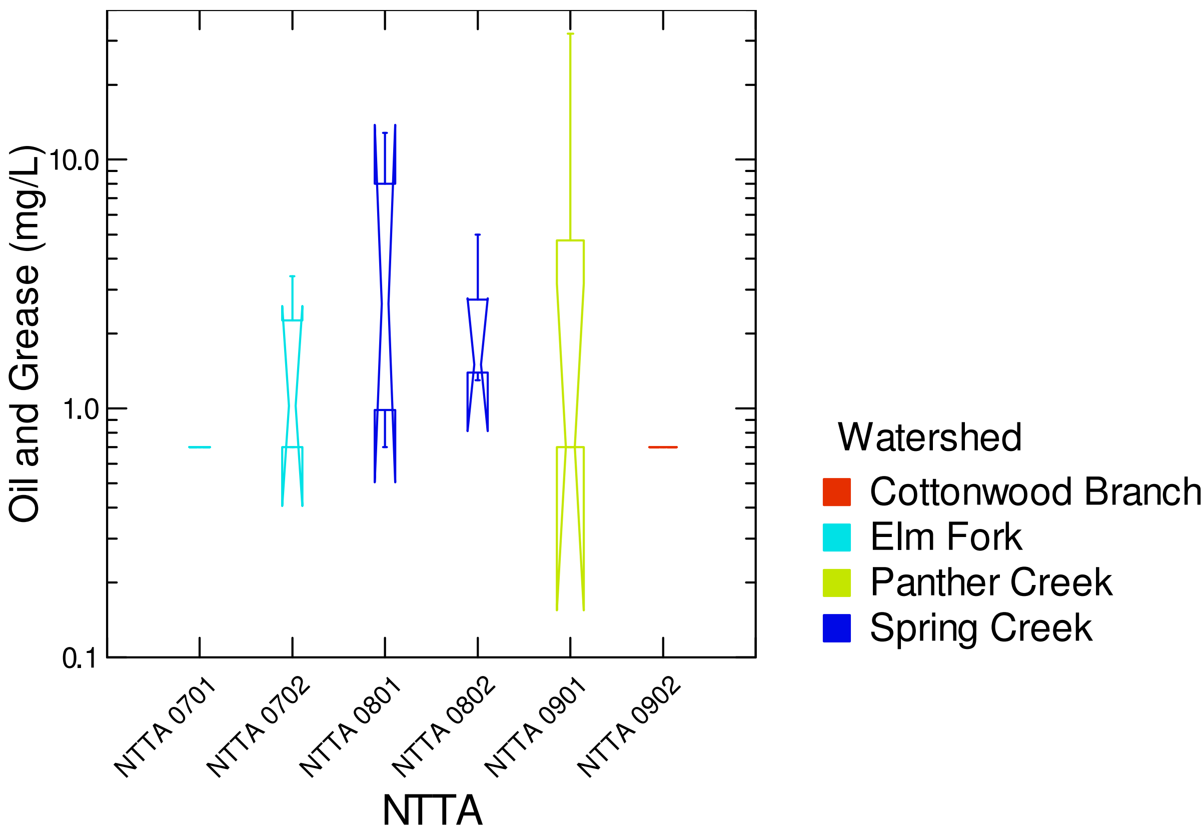
Oil and Grease (mg/L)
10
1
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek

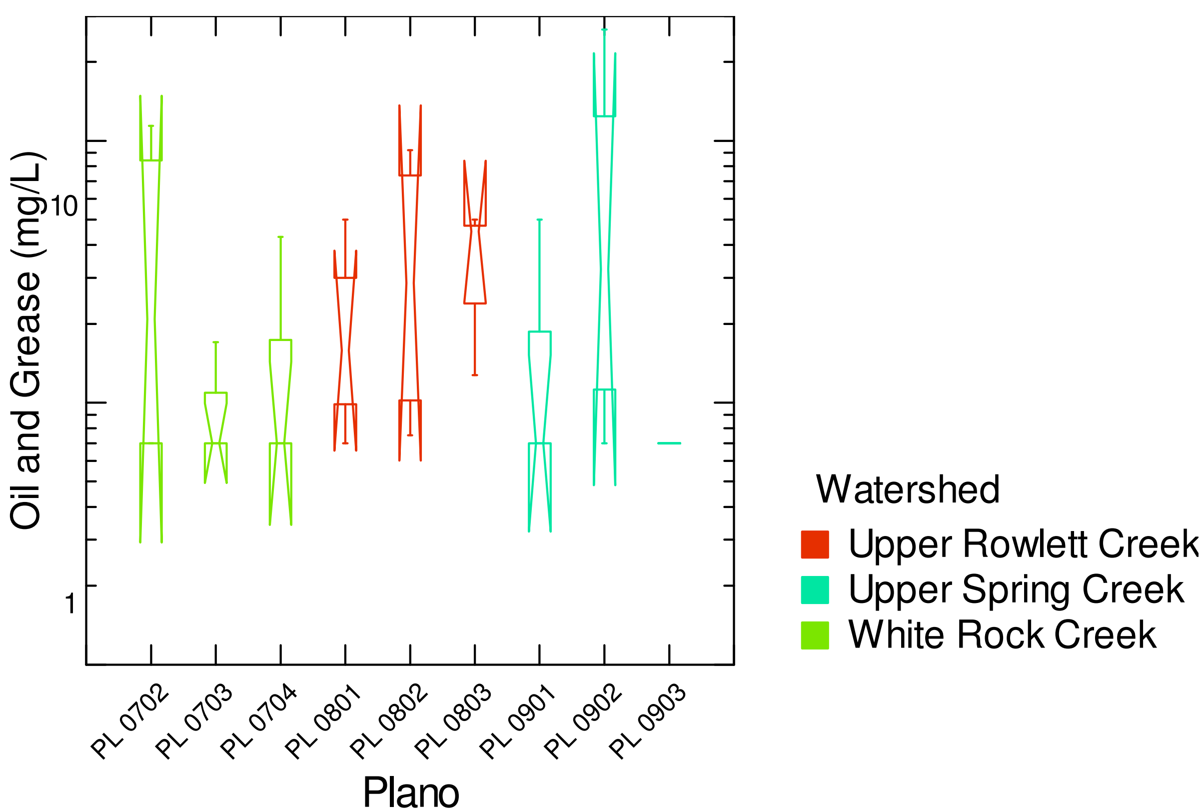


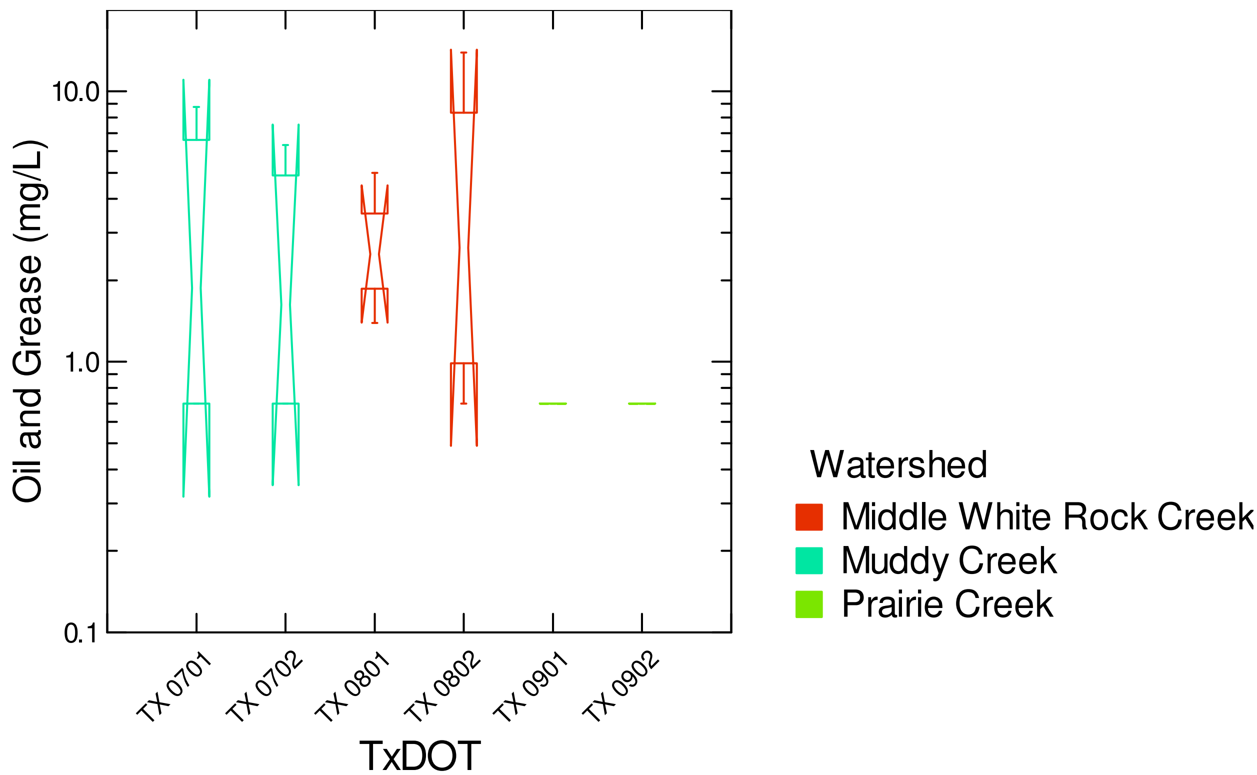
Oil and Grease (mg/L)
10.0
1.0
0.1
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek

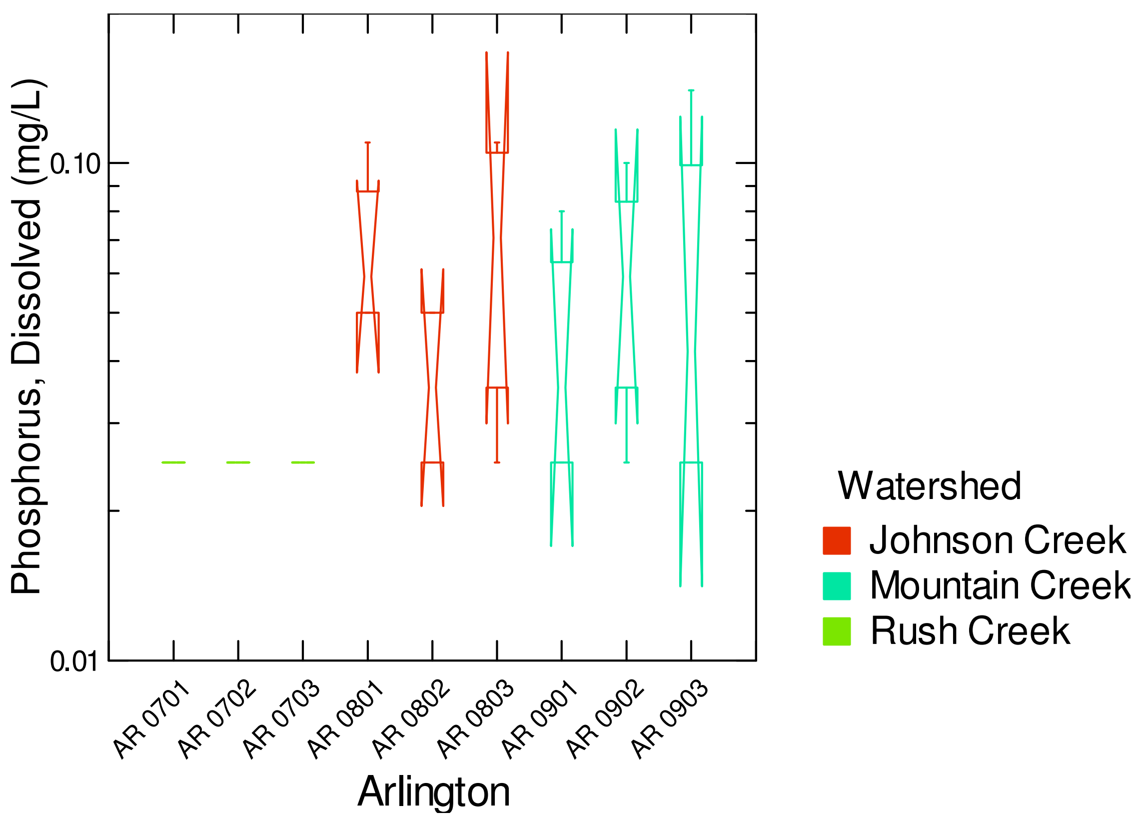

Oil and Grease (mg/L)
10.0
1.0
0.1
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek

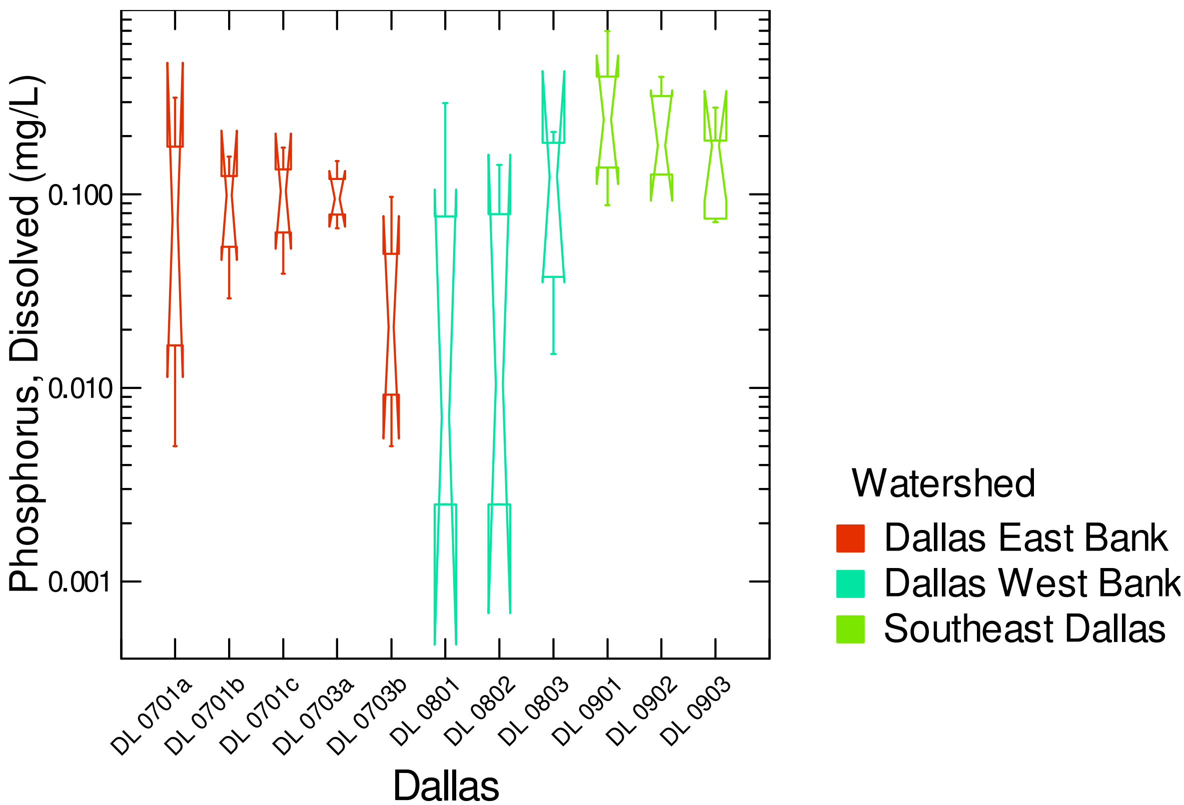

Oil and Grease (mg/L)
10
1
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek


Oil and Grease (mg/L)
10.0
1.0
0.1
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek

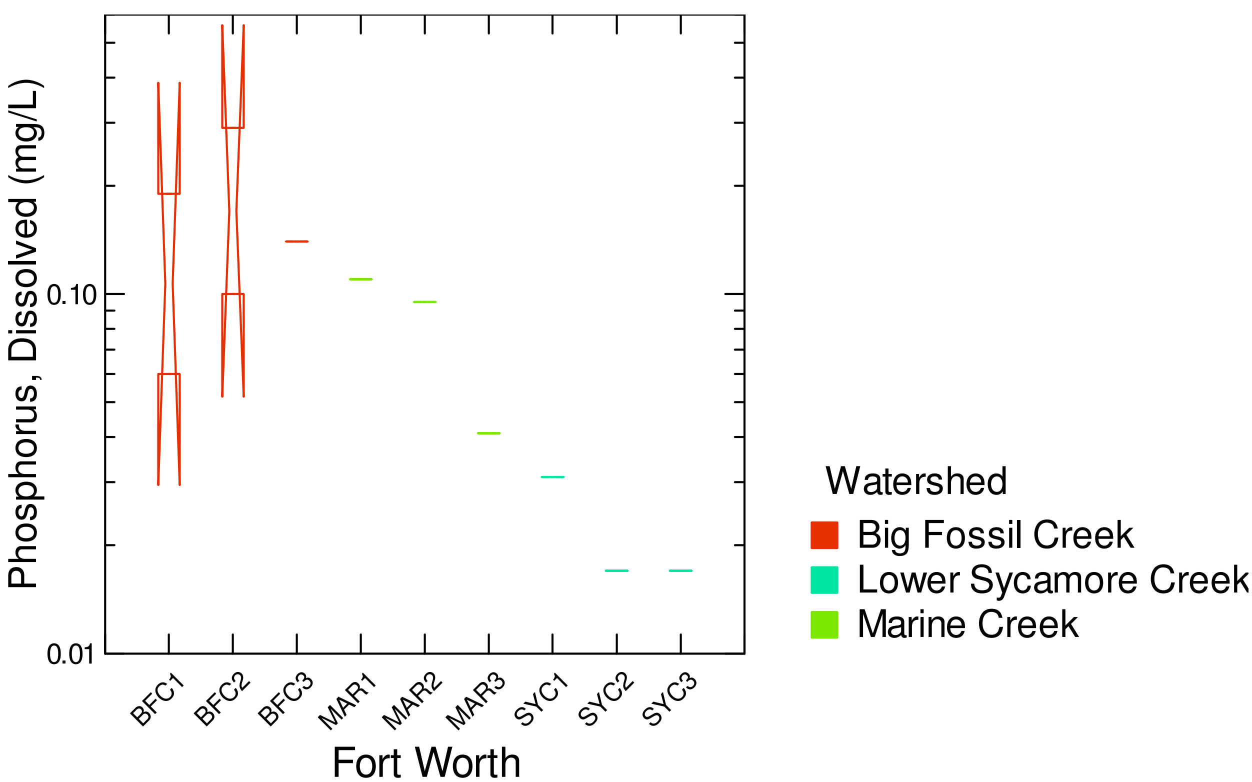

Oil and Grease (mg/L)
10
1
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek


Oil and Grease (mg/L)
10.0
1.0
0.1
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek

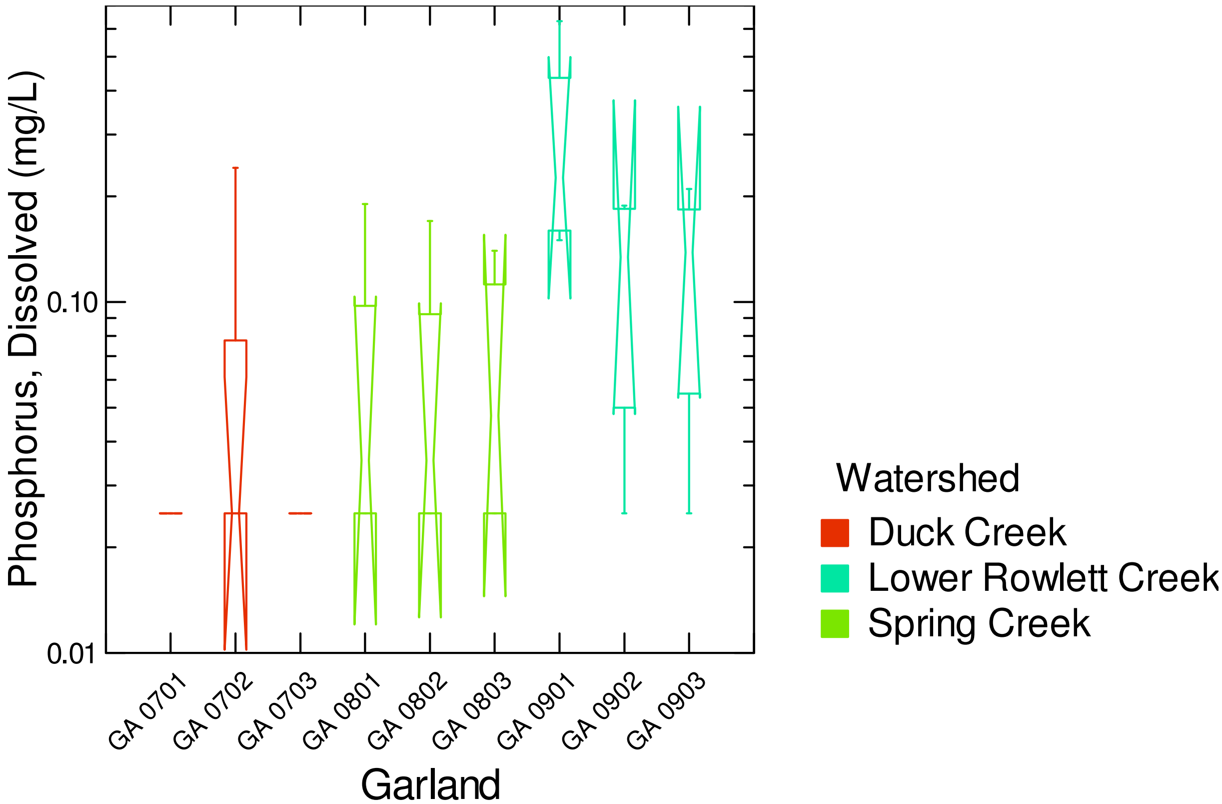

Phosphorus, Dissolved (mg/L)
0.10
0.01
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek

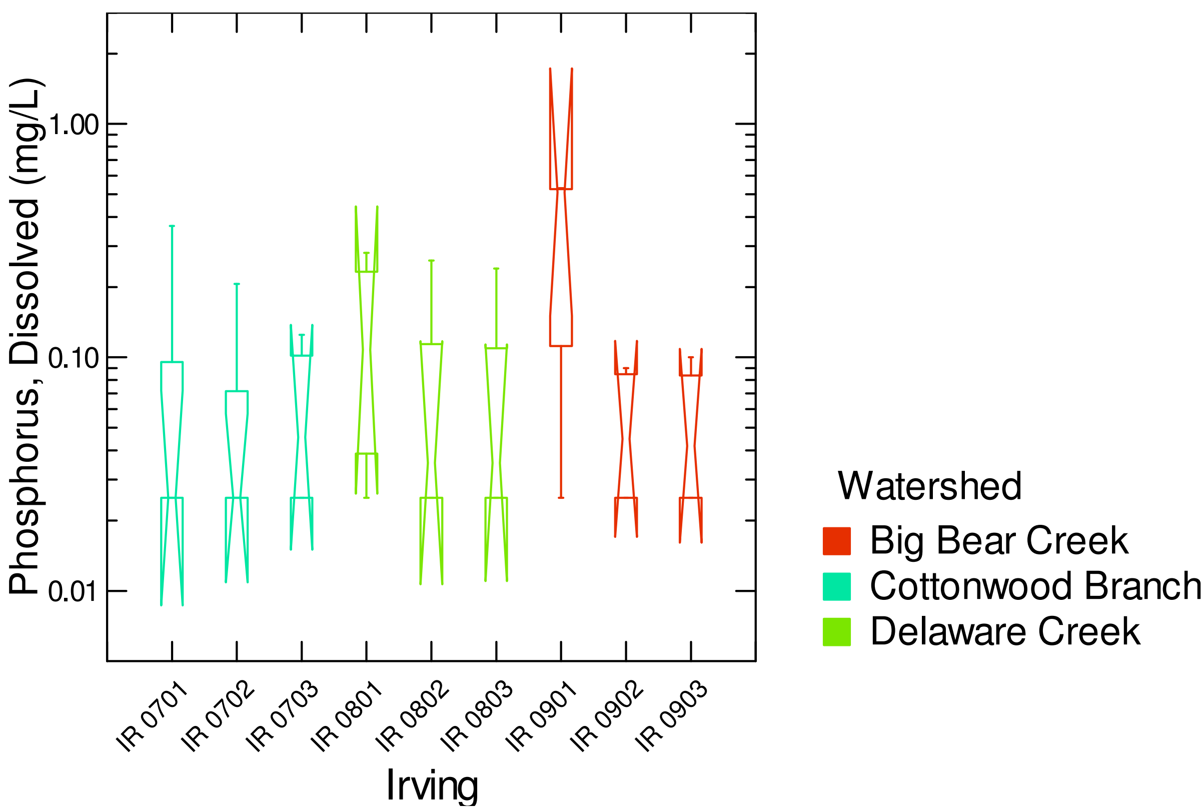


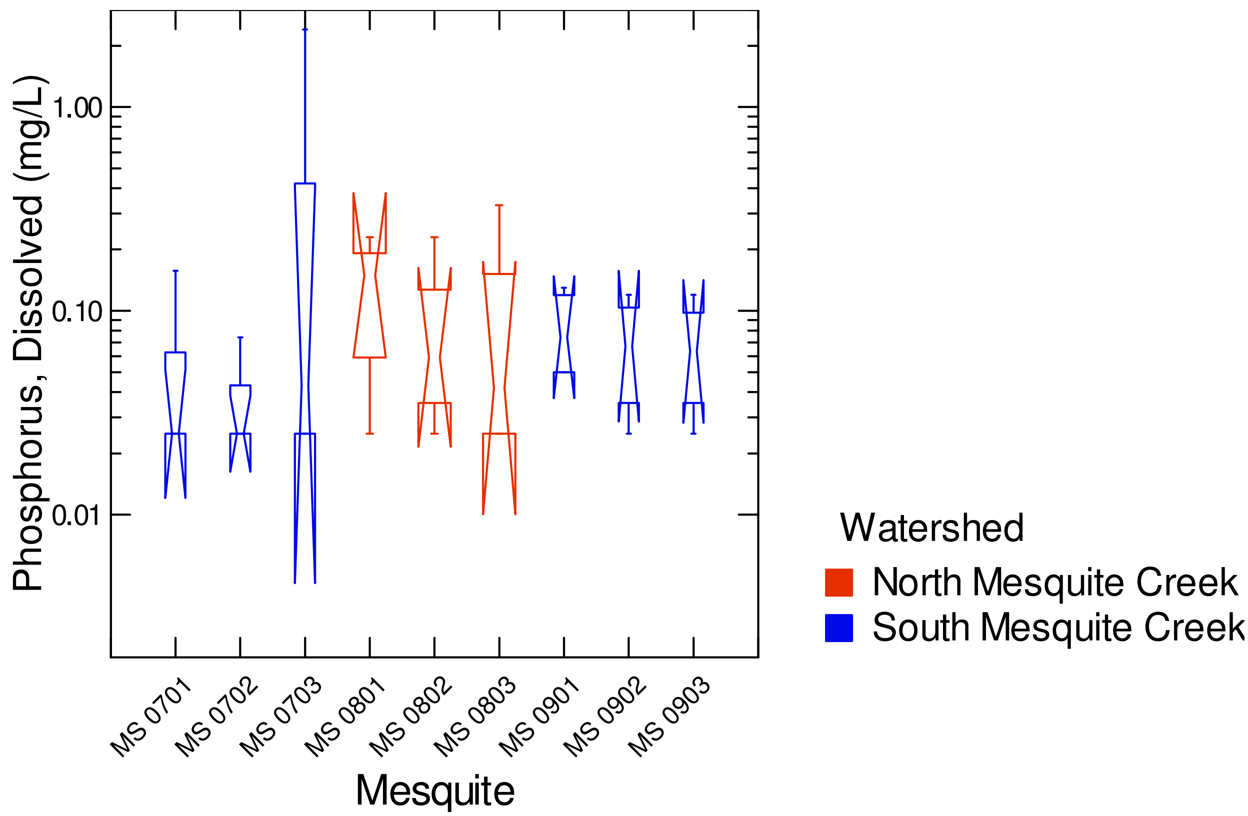
Phosphorus, Dissolved (mg/L)
0.100
0.010
0.001
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas



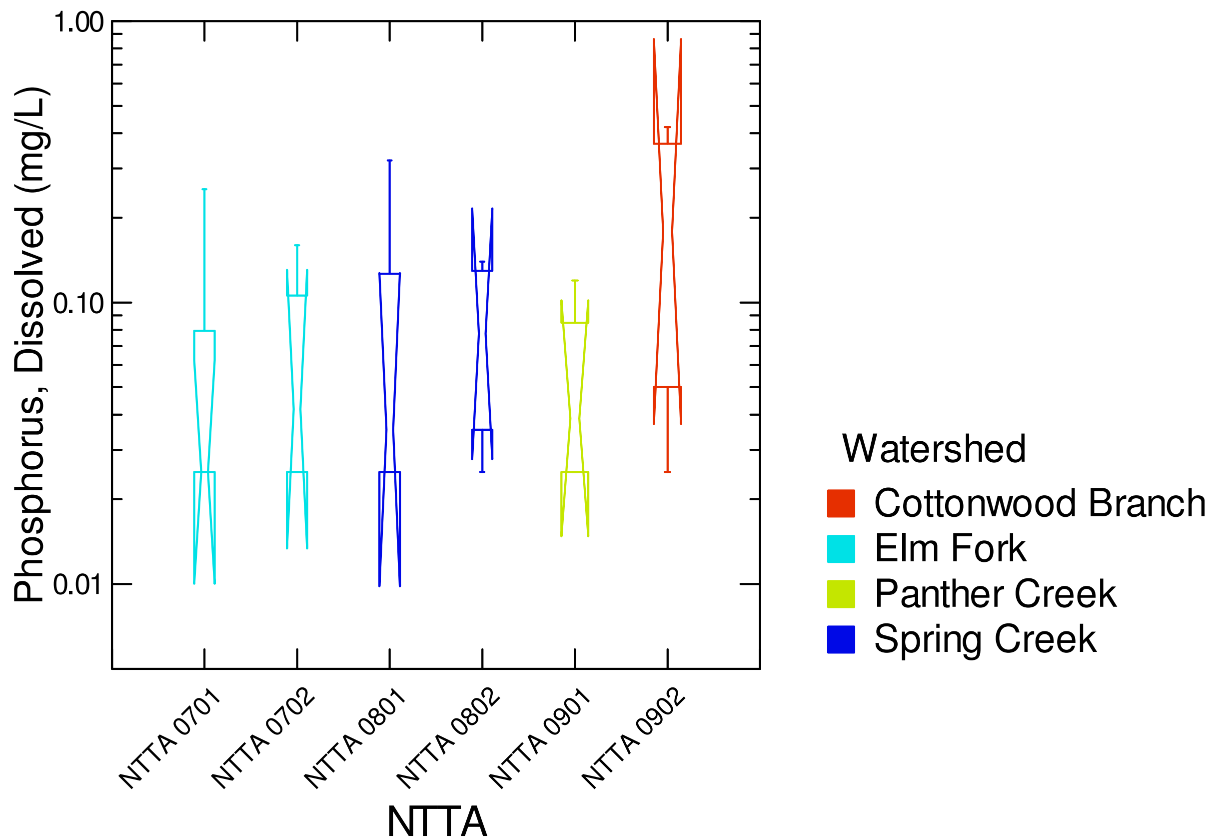
Phosphorus, Dissolved (mg/L)
0.10
0.01
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek


Phosphorus, Dissolved (mg/L)
0.10
0.01
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek

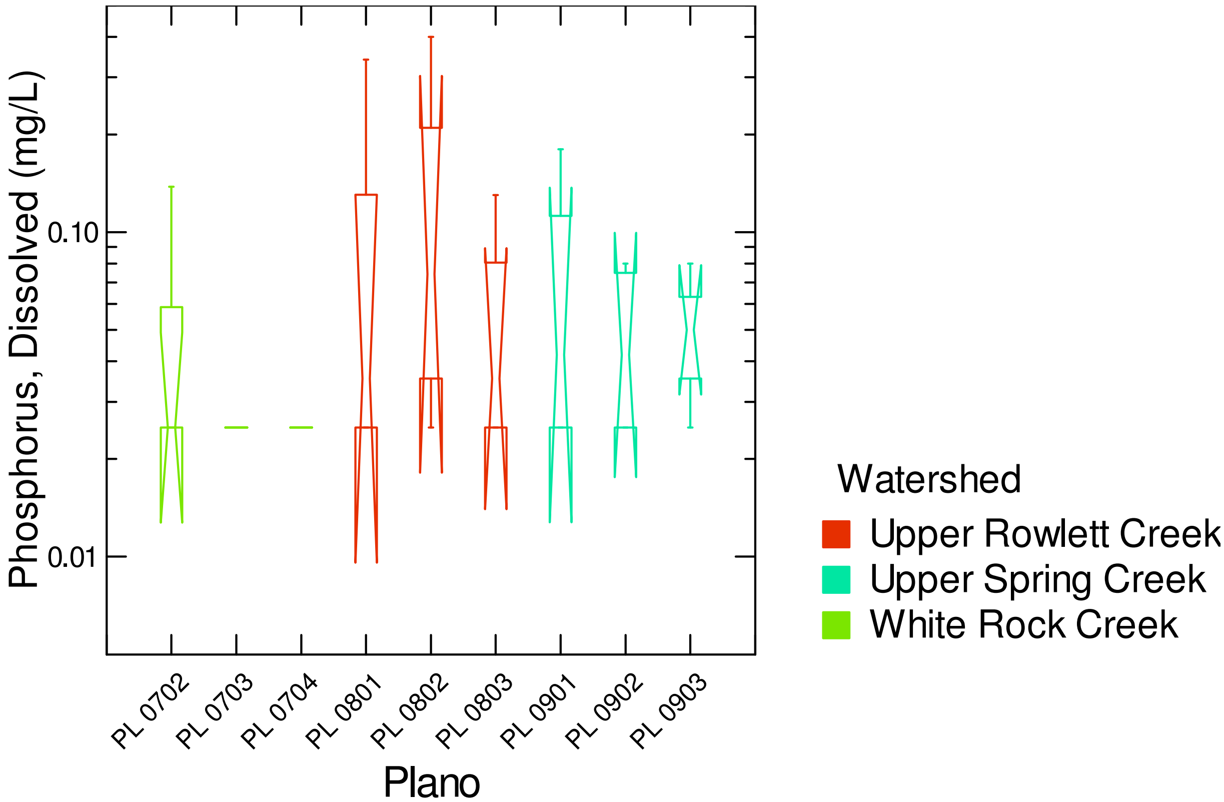

Phosphorus, Dissolved (mg/L)
1.00
0.10
0.01
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek



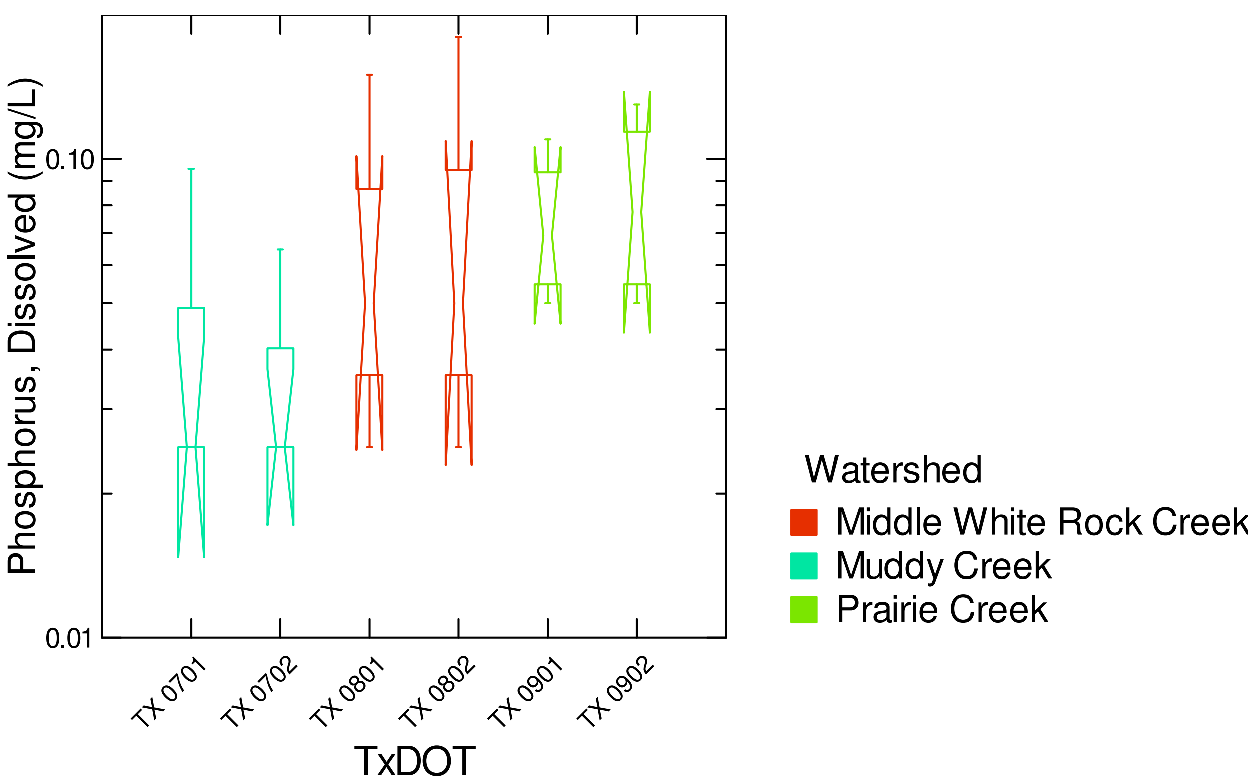
Phosphorus, Dissolved (mg/L)
1.00
0.10
0.01
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek



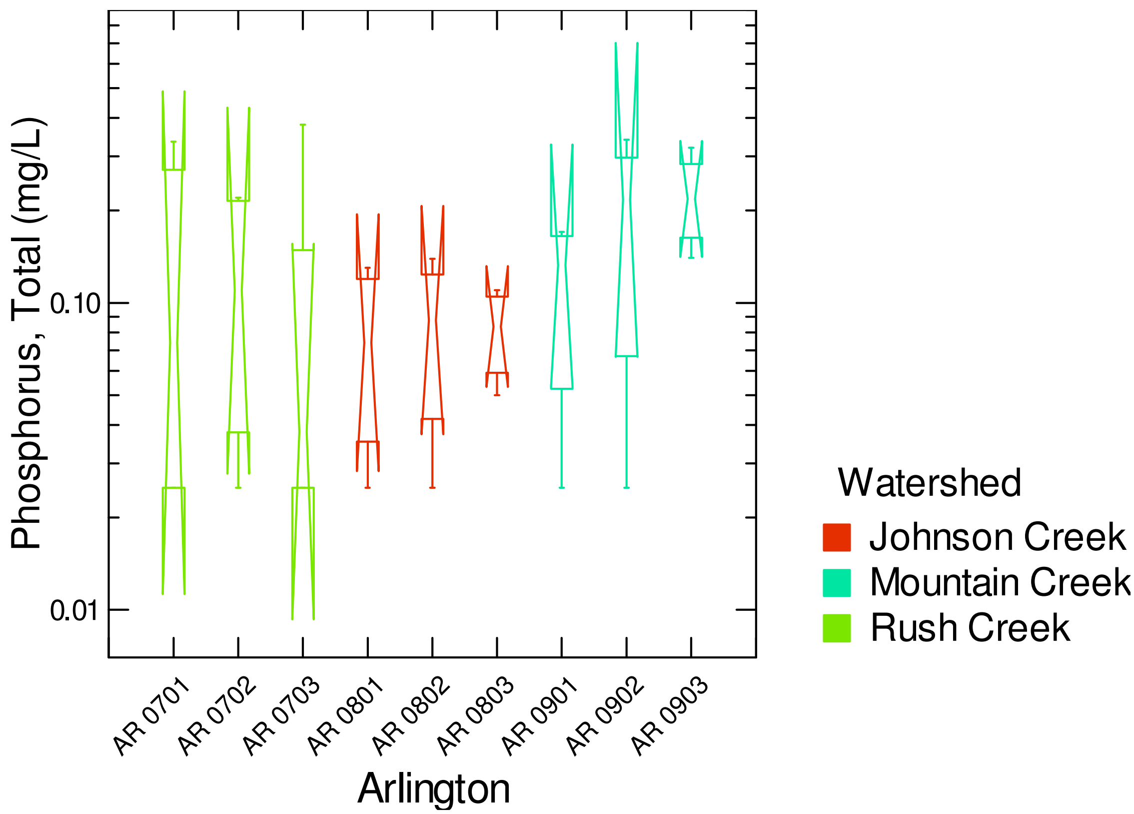
Phosphorus, Dissolved (mg/L)
1.00
0.10
0.01
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek

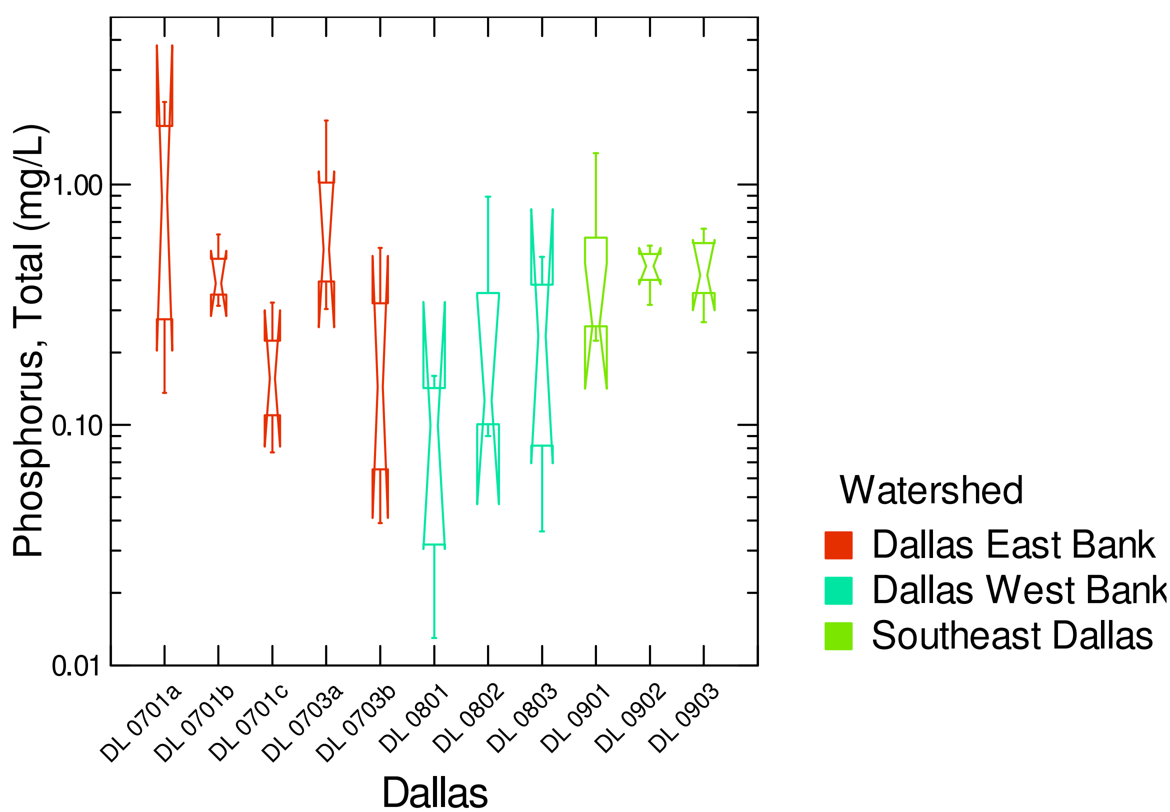


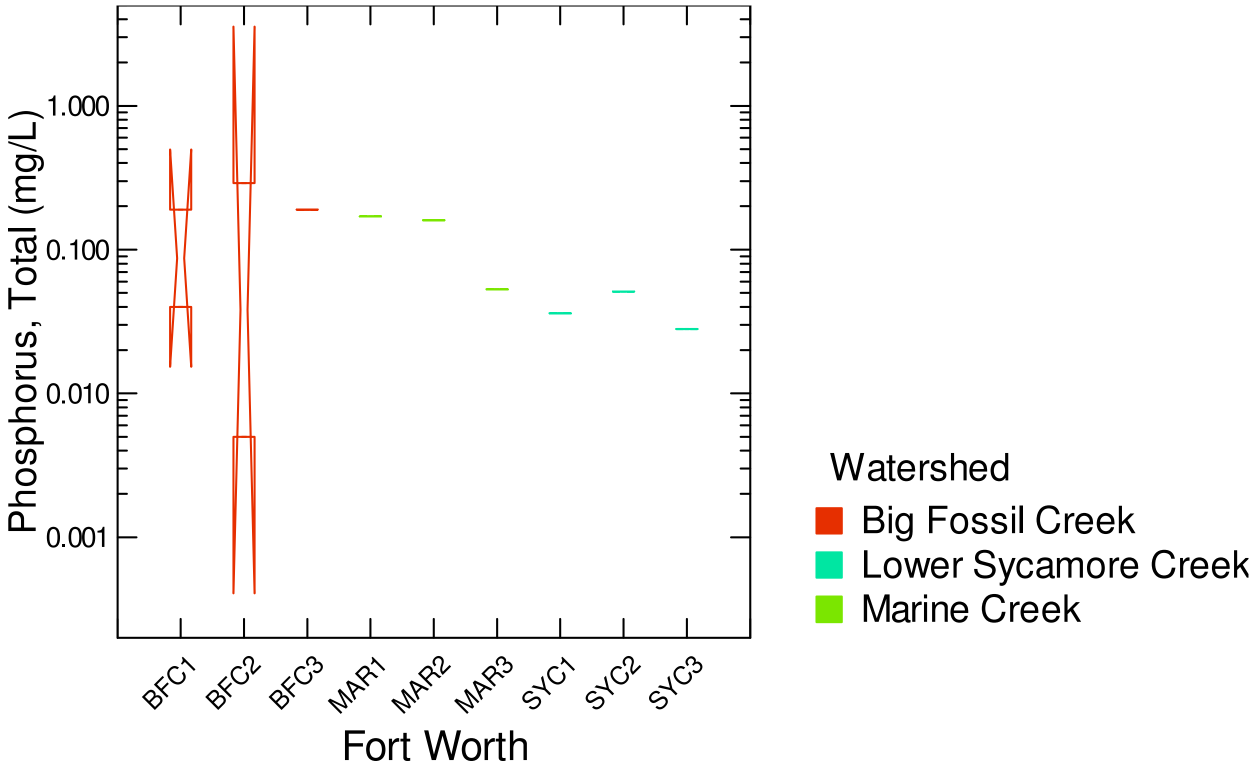
Phosphorus, Dissolved (mg/L)
0.10
0.01
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek

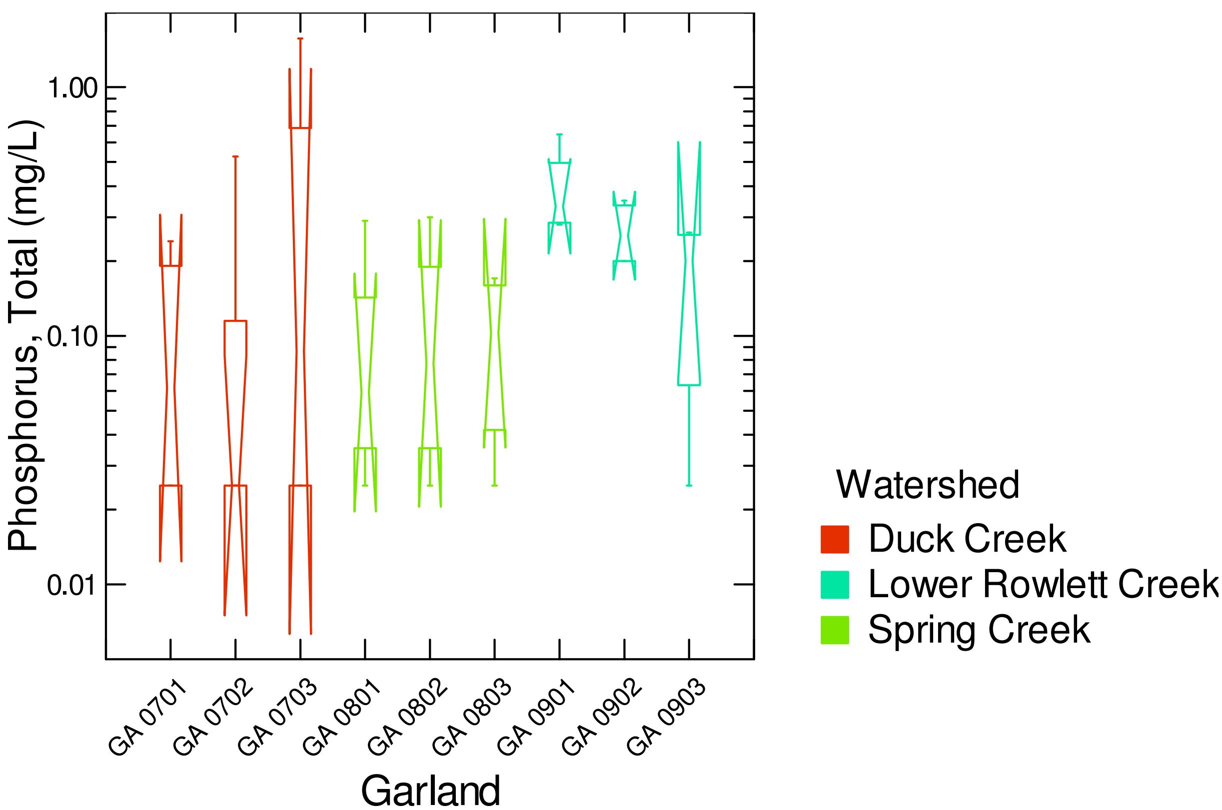


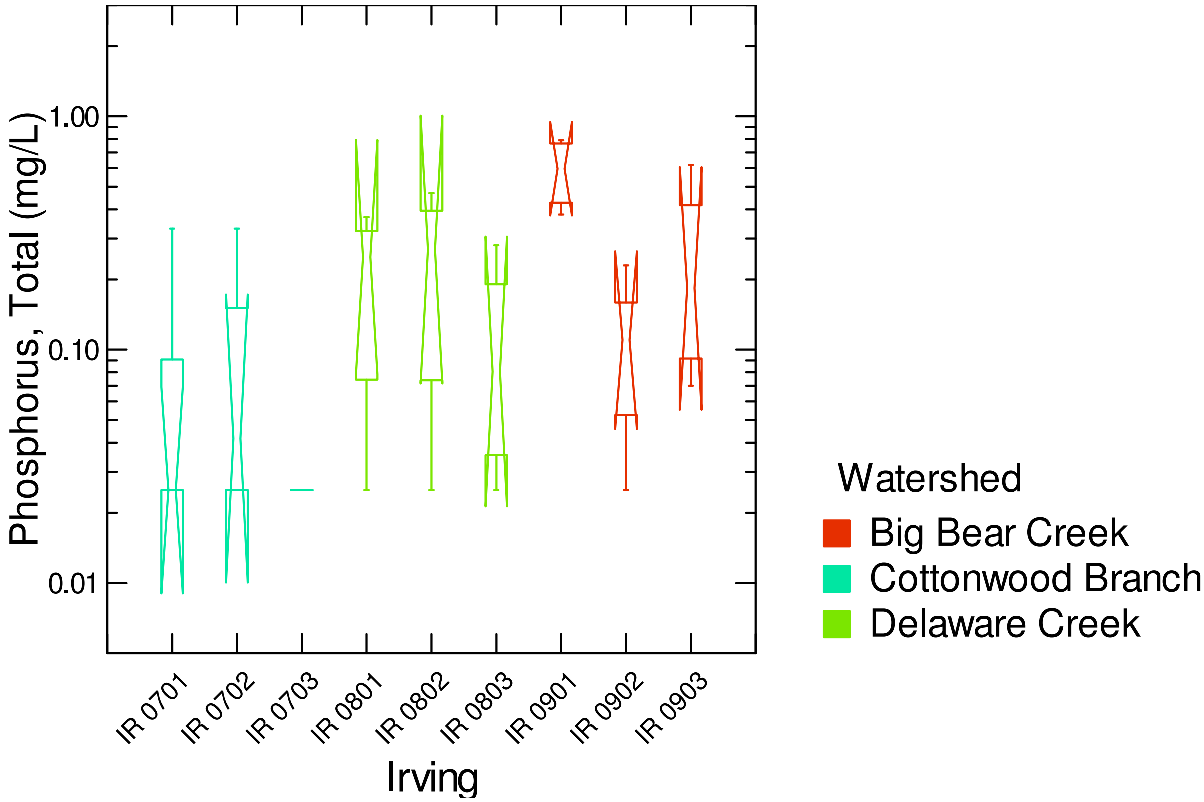
Phosphorus, Dissolved (mg/L)
0.10
0.01
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek


Phosphorus, Total (mg/L)
0.10
0.01
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek

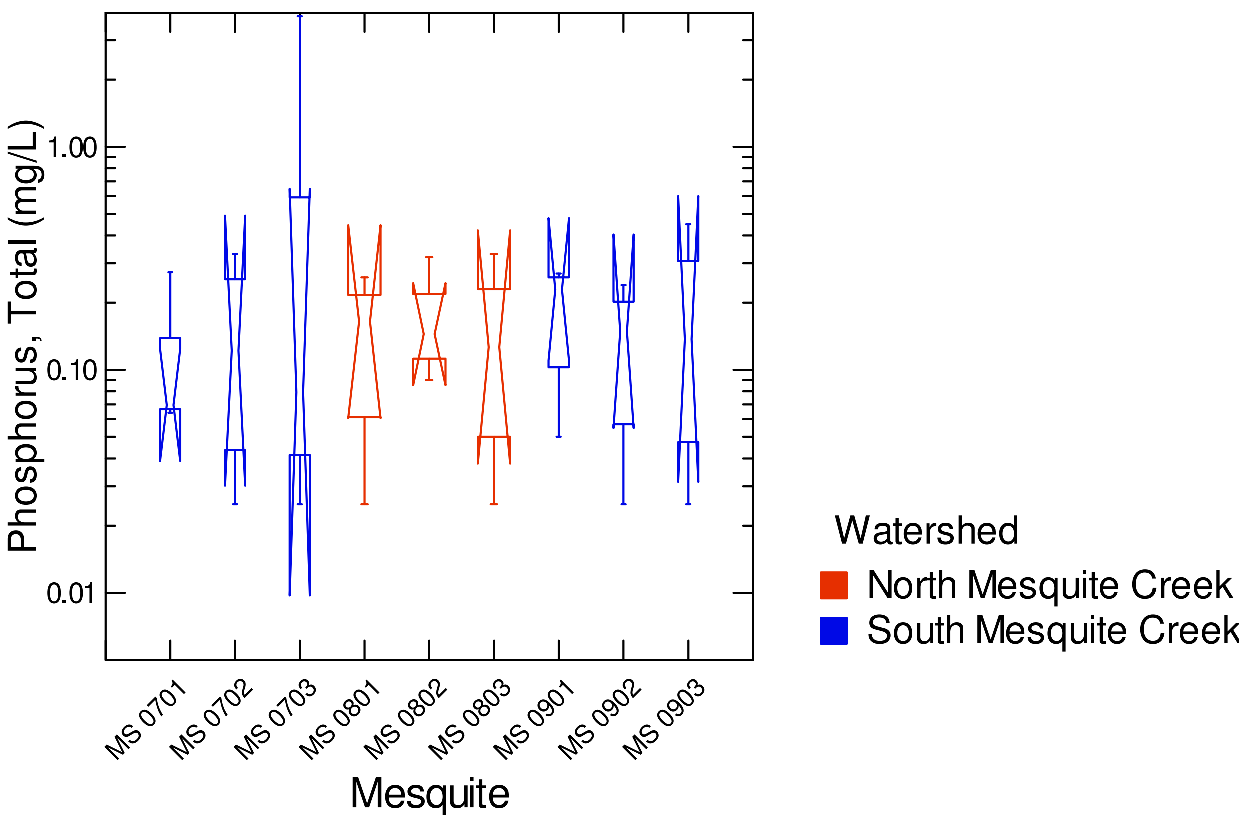

Phosphorus, Total (mg/L)
1.00
0.10
0.01
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas


Phosphorus, Total (mg/L)
1.000
0.100
0.010
0.001
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek

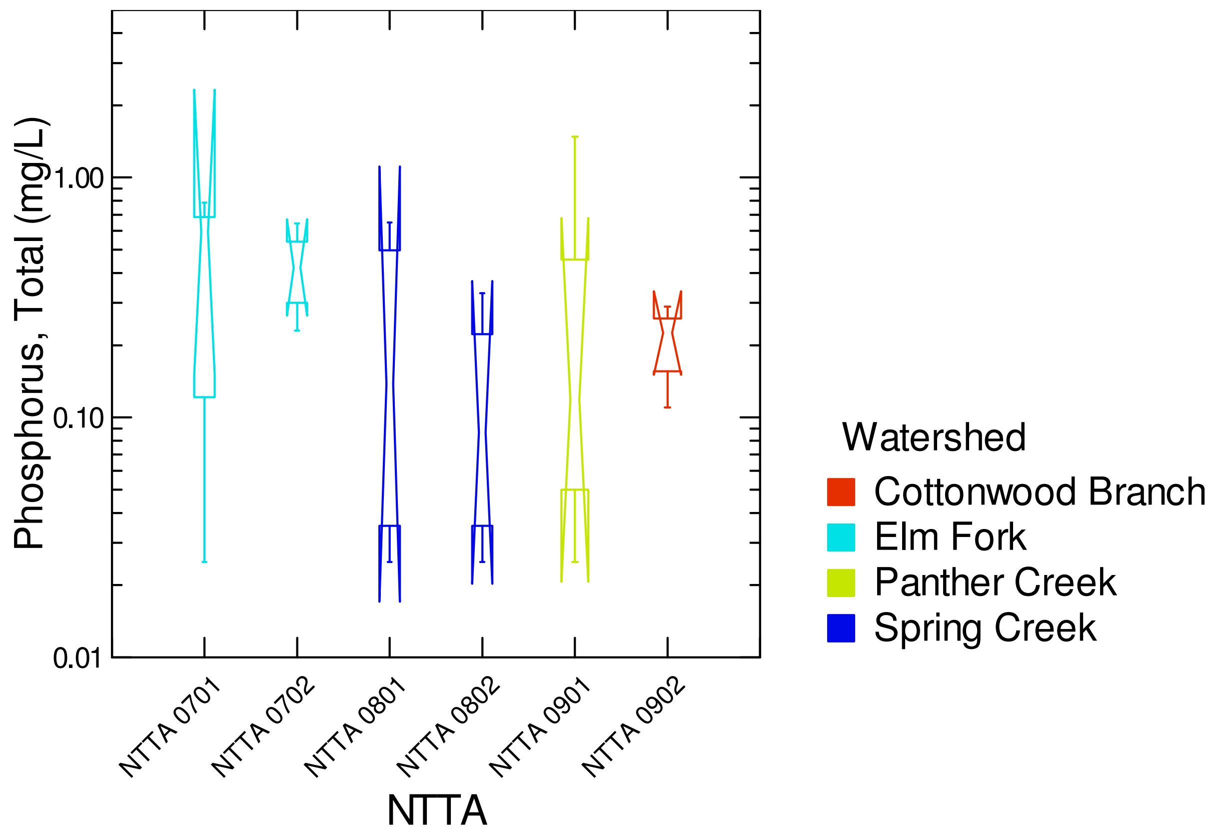

Phosphorus, Total (mg/L)
1.00
0.10
0.01
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek



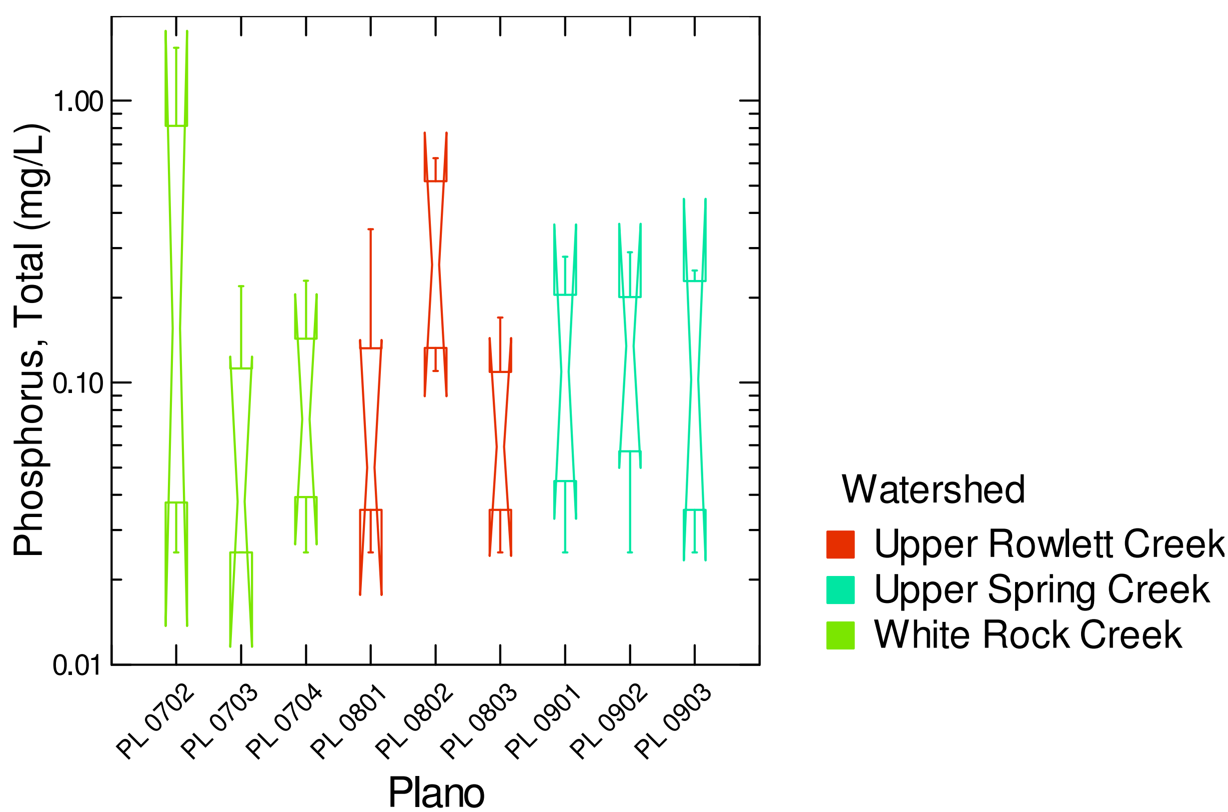
Phosphorus, Total (mg/L)
1.00
0.10
0.01
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek



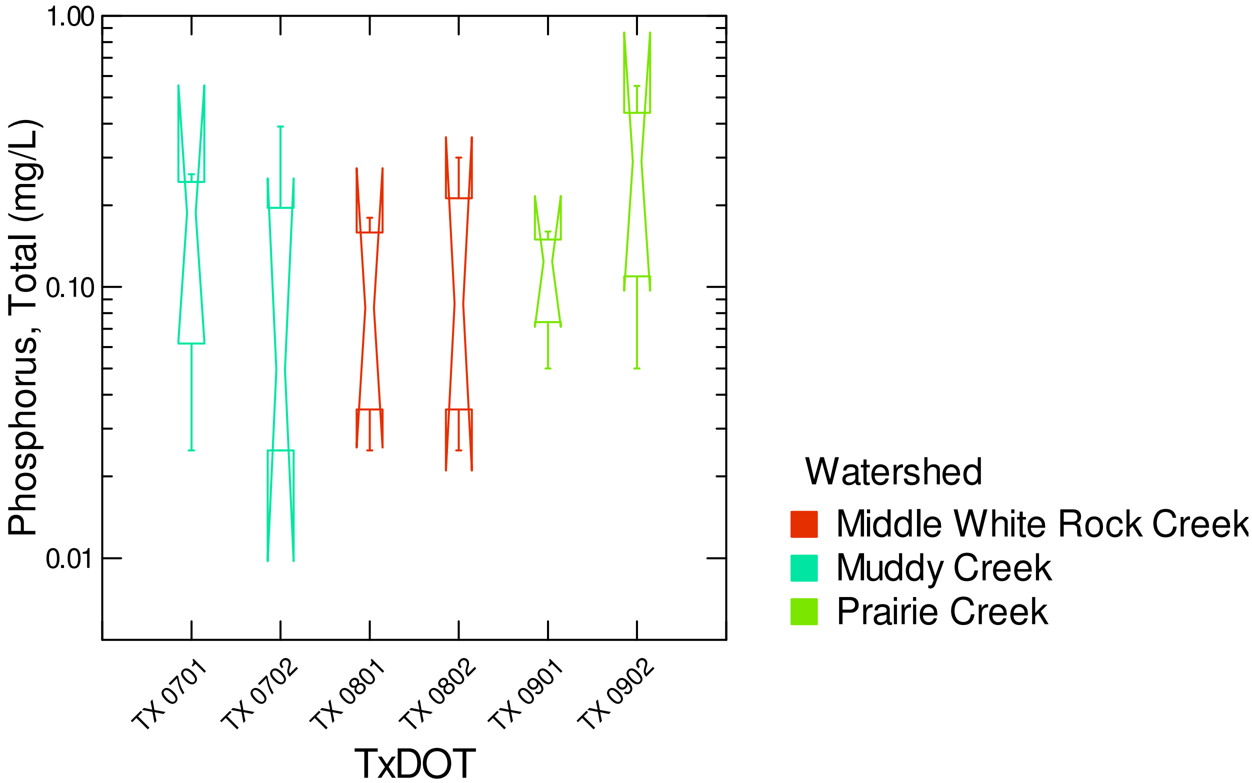
Phosphorus, Total (mg/L)
1.00
0.10
0.01
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek

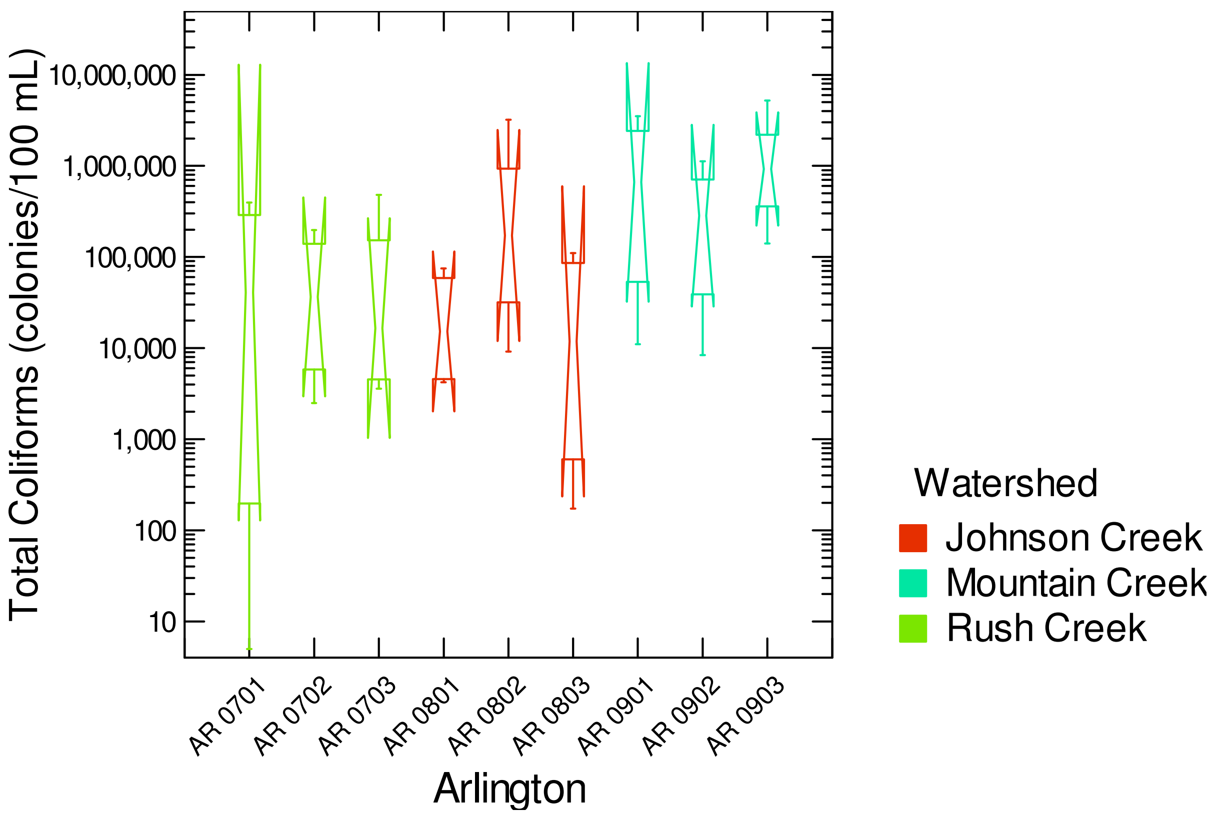


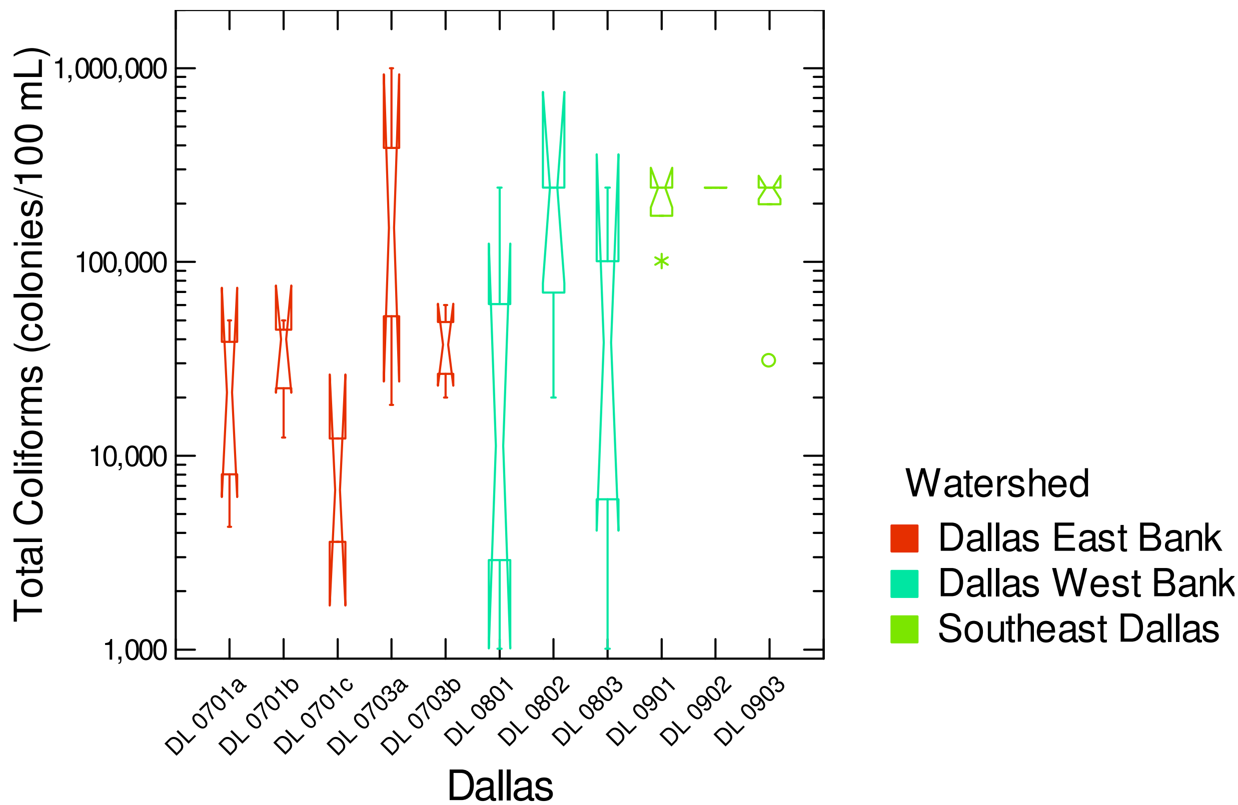
Phosphorus, Total (mg/L)
1.00
0.10
0.01
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek

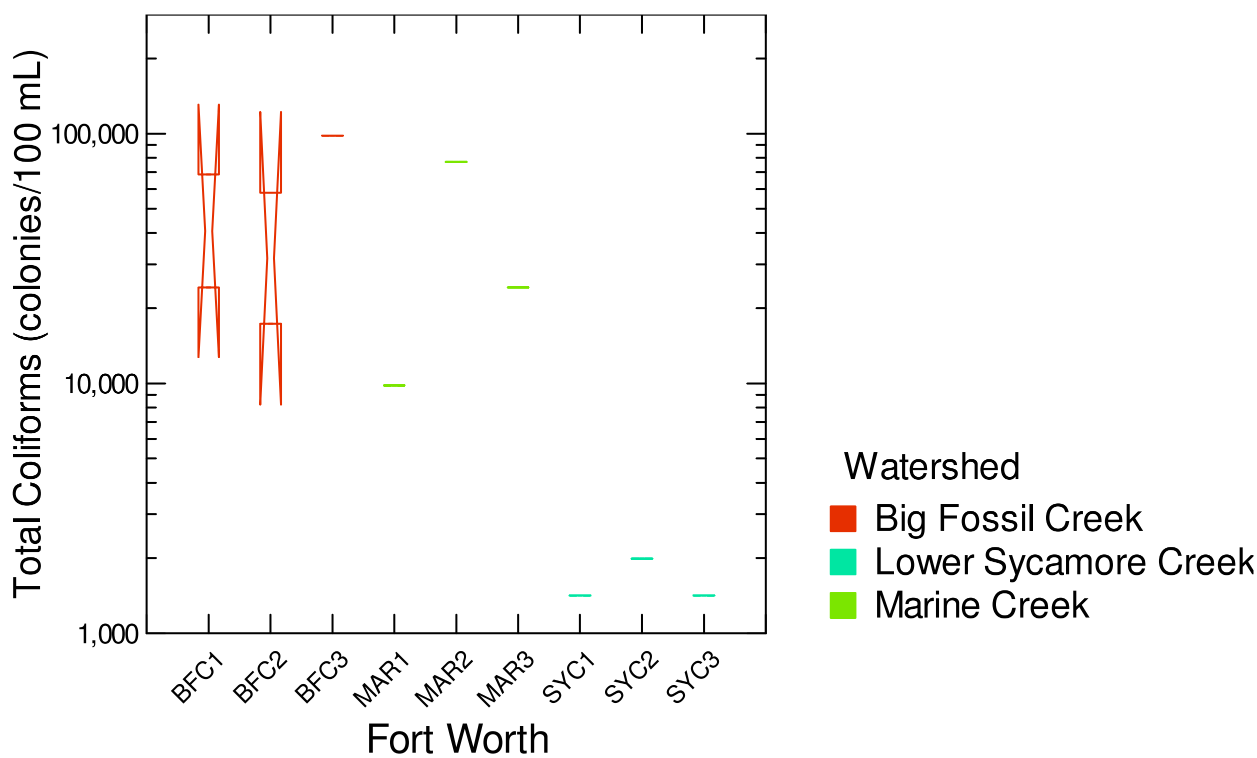


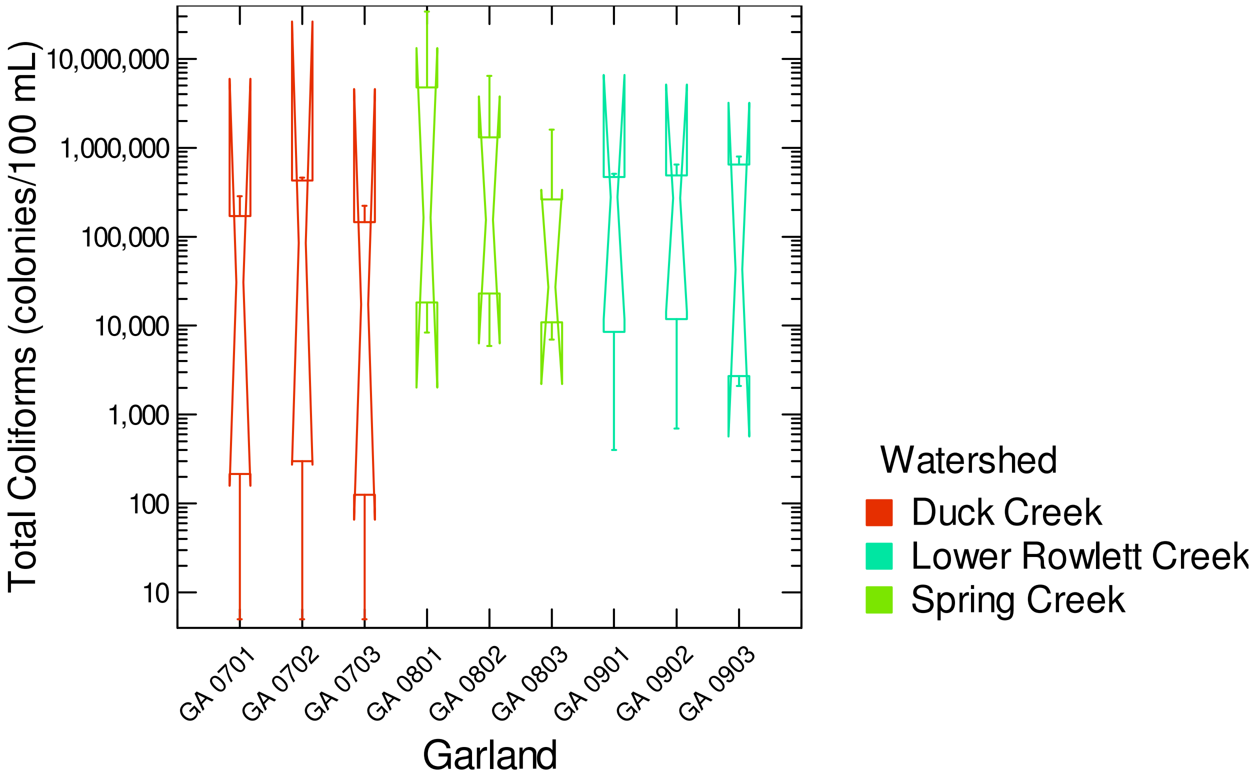
Phosphorus, Total (mg/L)
1.00
0.10
0.01
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek

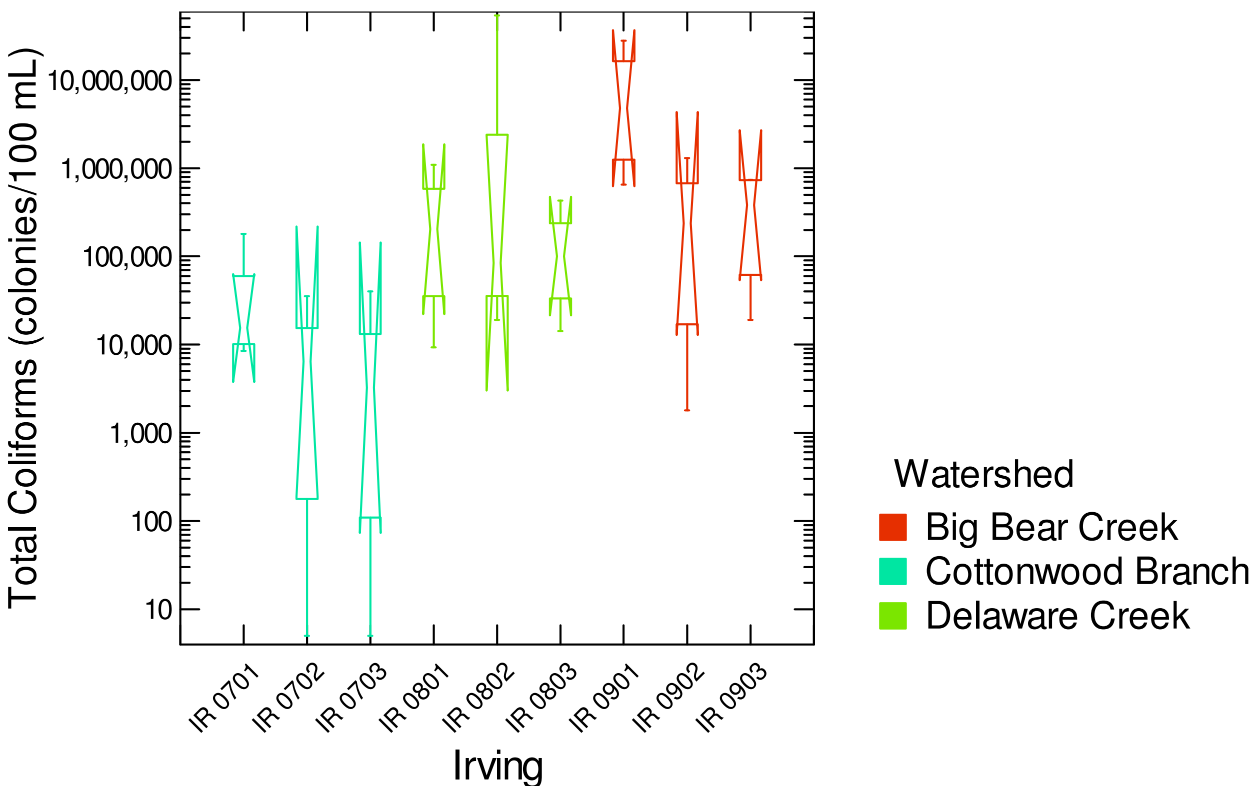

1.00
0.10
0.01
Phosphorus, Total (mg/L)
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek

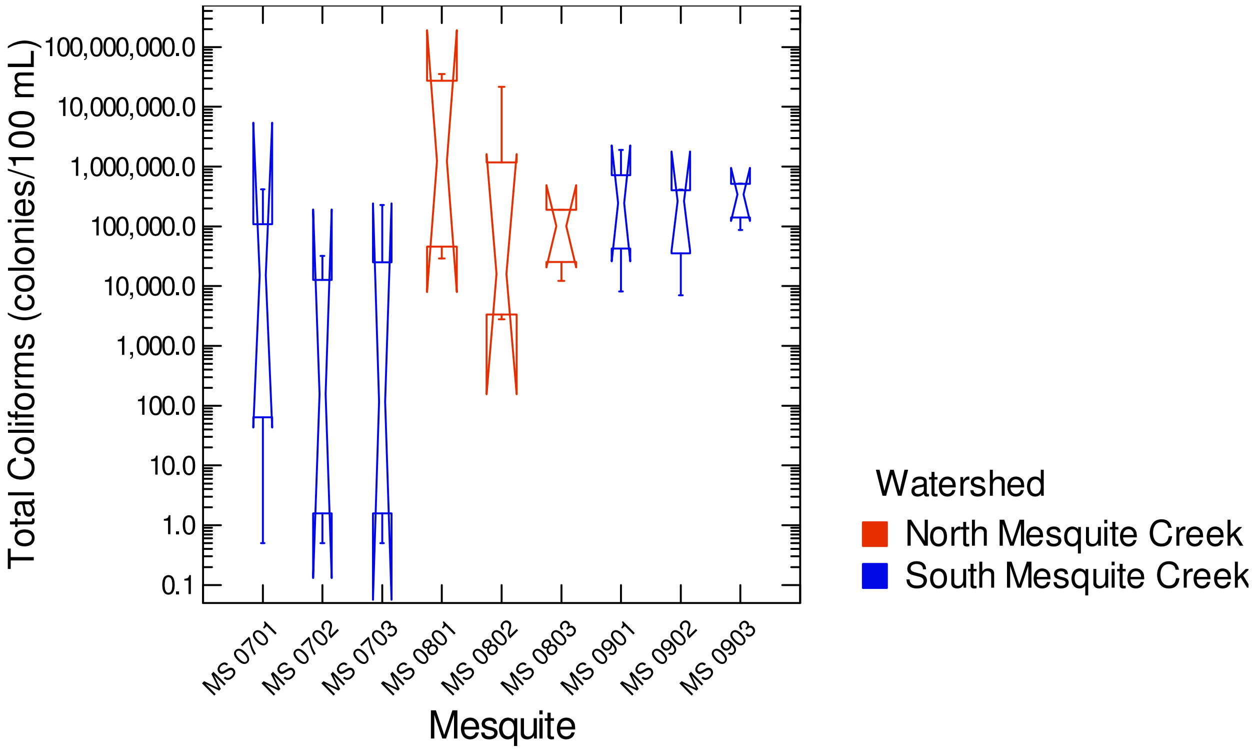

10,000,000
1,000,000
100,000
10,000
1,000
100
10
Total Coliforms (colonies/100 mL)
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek


Total Coliforms (colonies/100 mL)
1,000,000
100,000
10,000
1,000
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas

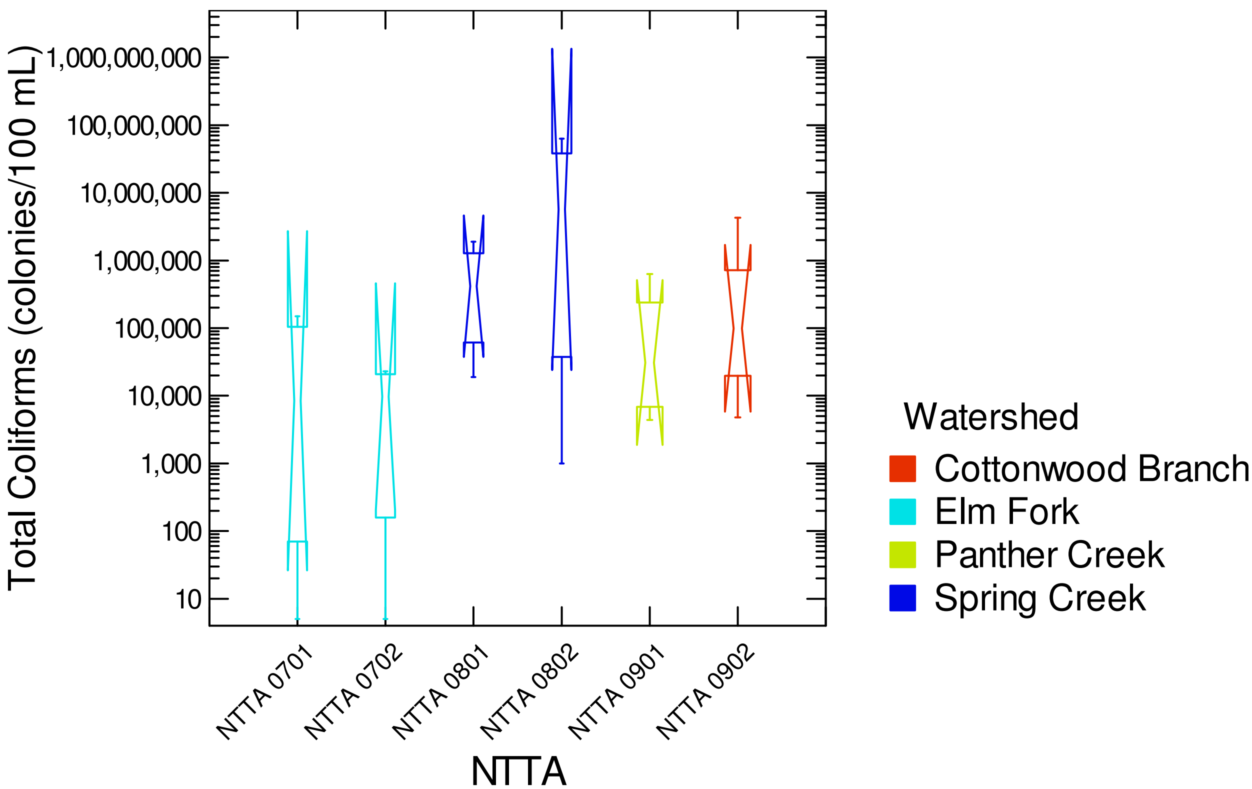

Total Coliforms (colonies/100 mL)
100,000
10,000
1,000
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek


Total Coliforms (colonies/100 mL)
10,000,000
1,000,000
100,000
10,000
1,000
100
10
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek

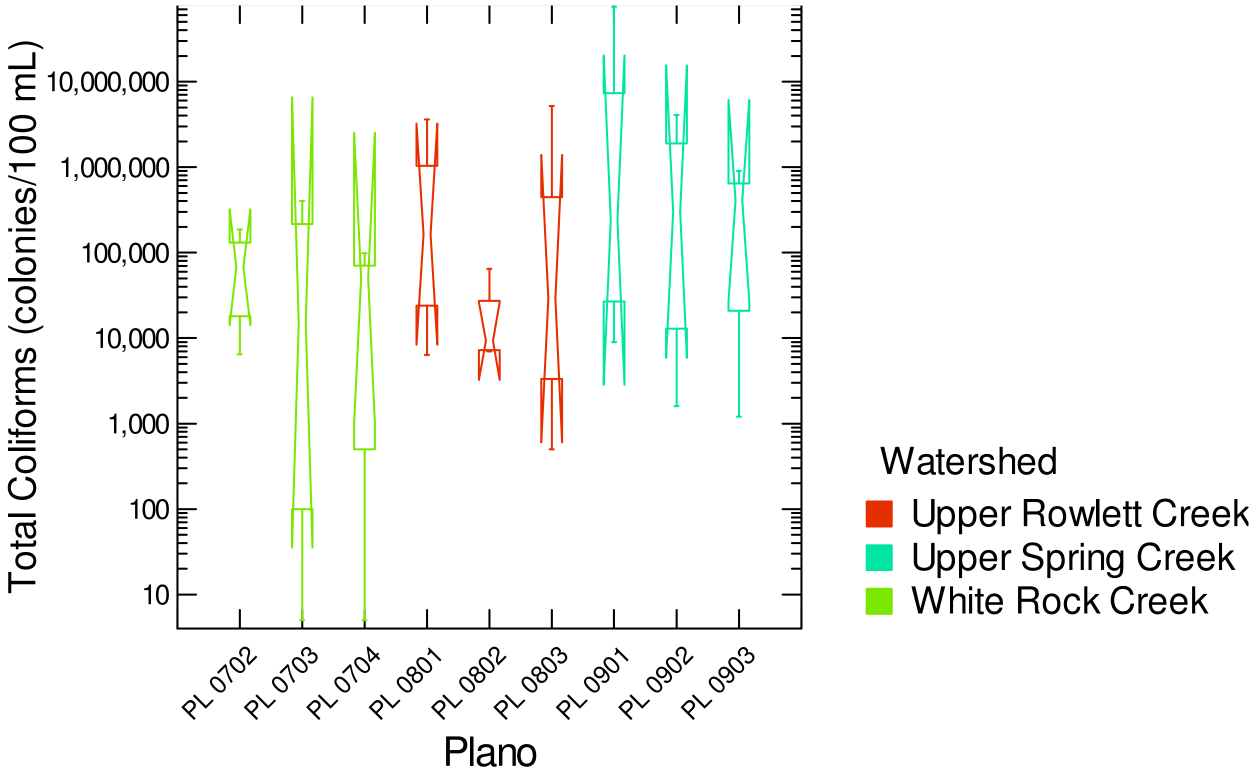

Total Coliforms (colonies/100 mL)
10,000,000
1,000,000
100,000
10,000
1,000
100
10
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek

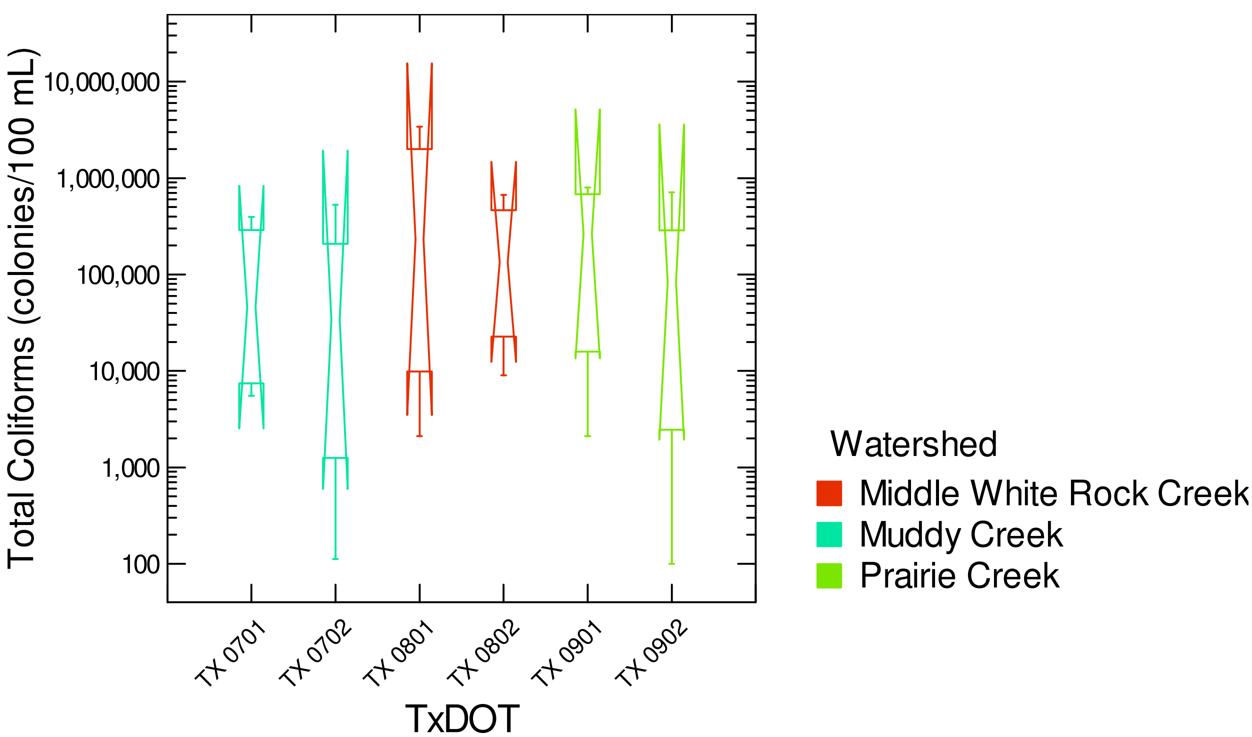


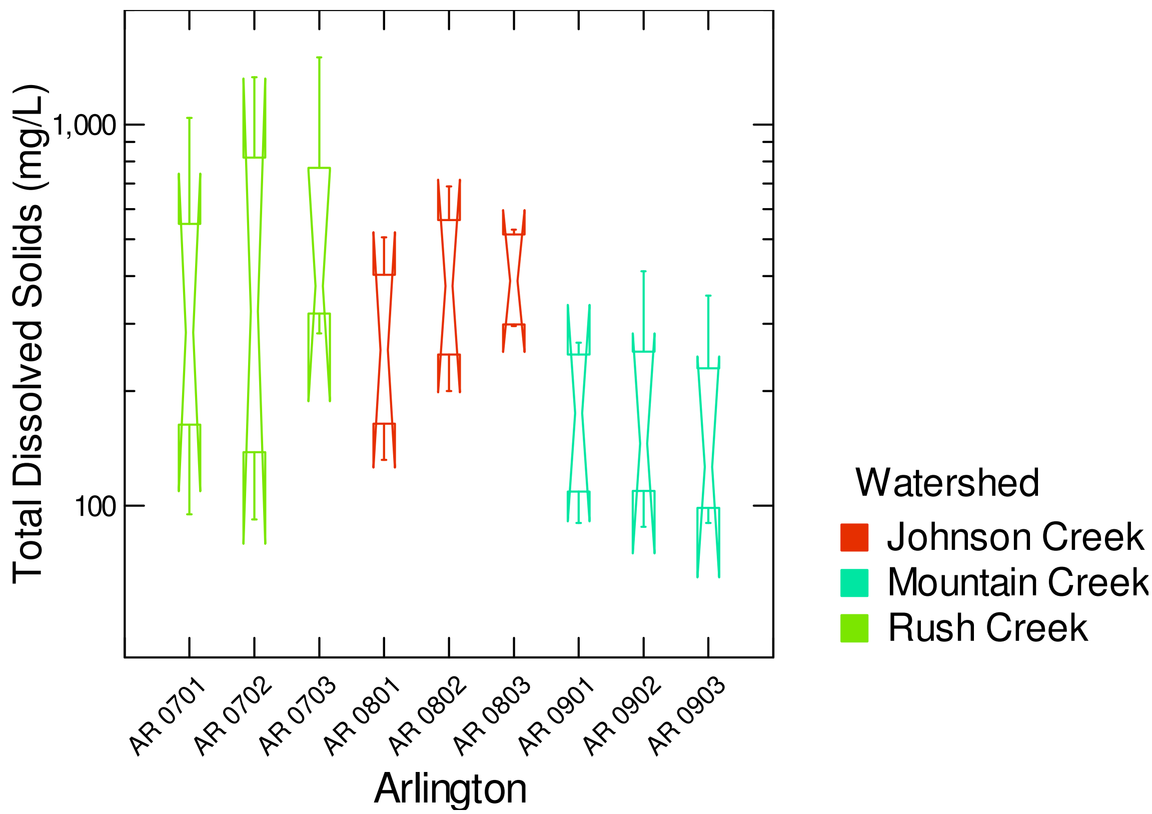
Total Coliforms (colonies/100 mL)
100,000,000.0
10,000,000.0
1,000,000.0
100,000.0
10,000.0
1,000.0
100.0
10.0
1.0
0.1
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek



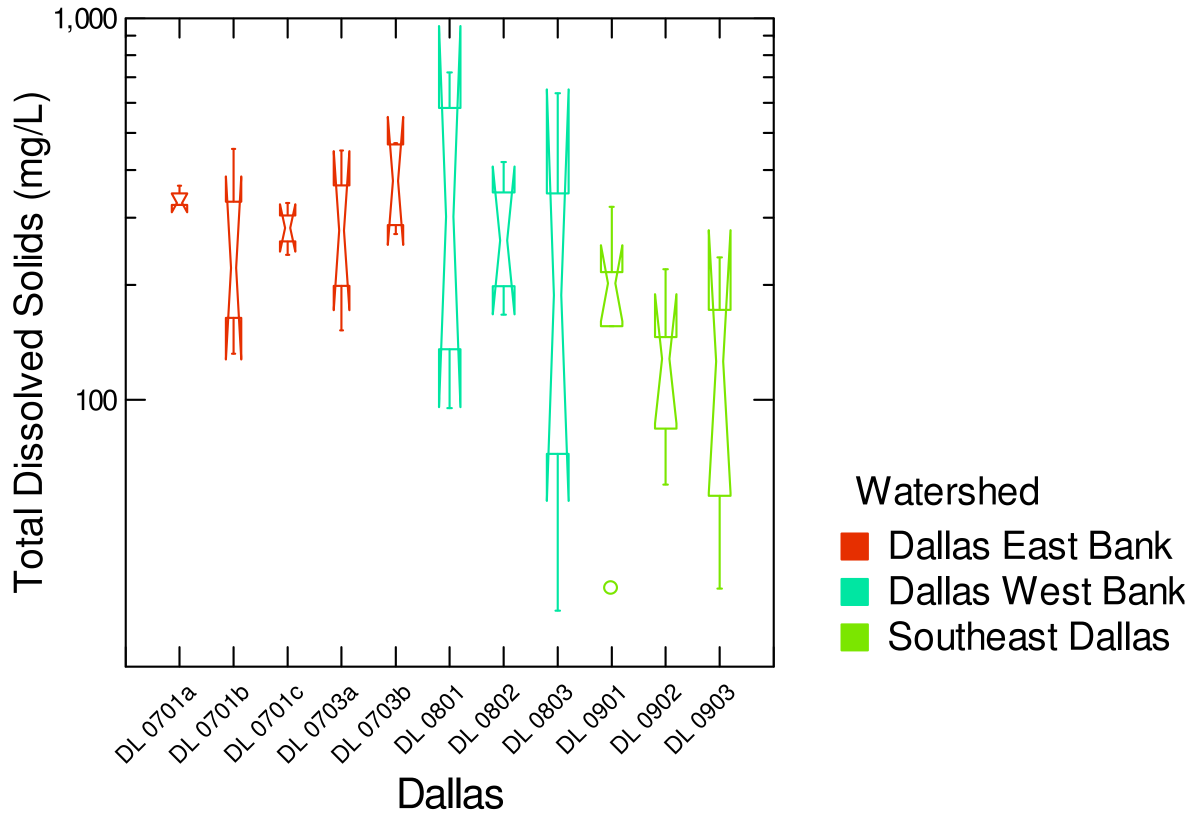
Total Coliforms (colonies/100 mL)
1,000,000,000
100,000,000
10,000,000
1,000,000
100,000
10,000
1,000
100
10
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek


Total Coliforms (colonies/100 mL)
10,000,000
1,000,000
100,000
10,000
1,000
100
10
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek

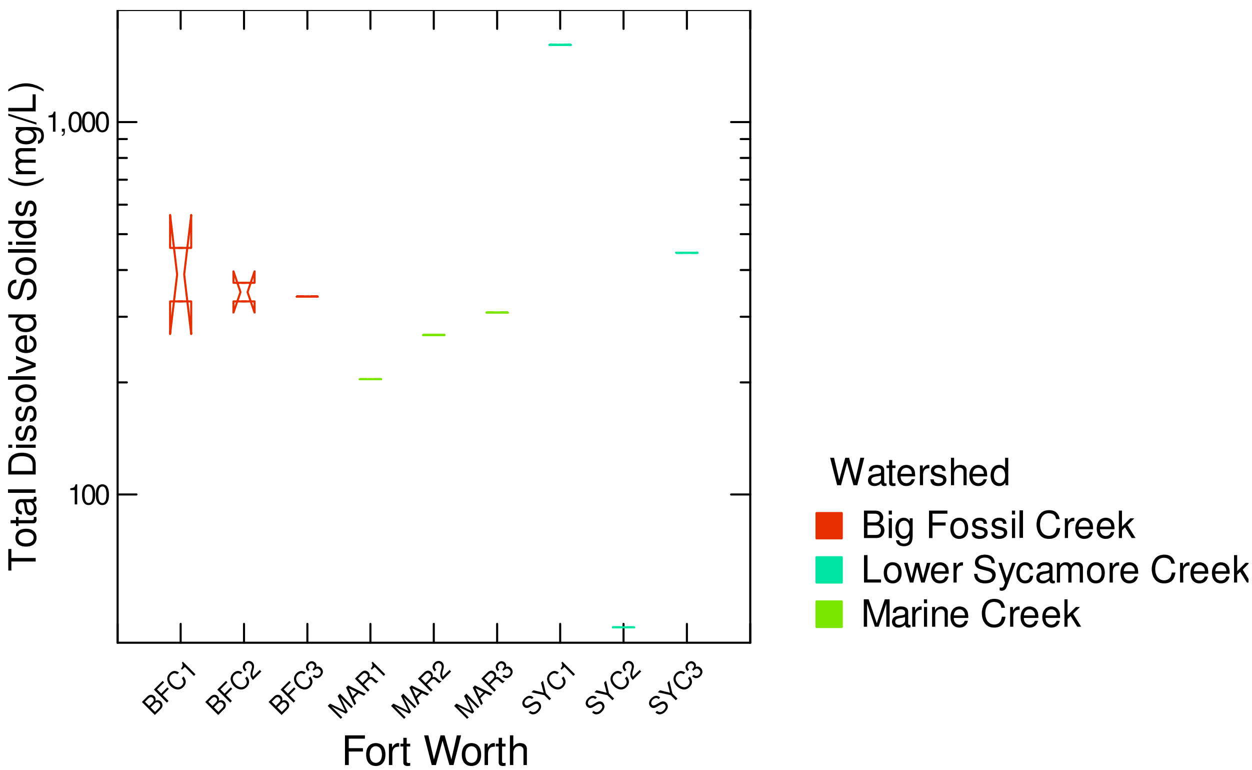

Total Coliforms (colonies/100 mL)
10,000,000
1,000,000
100,000
10,000
1,000
100
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek

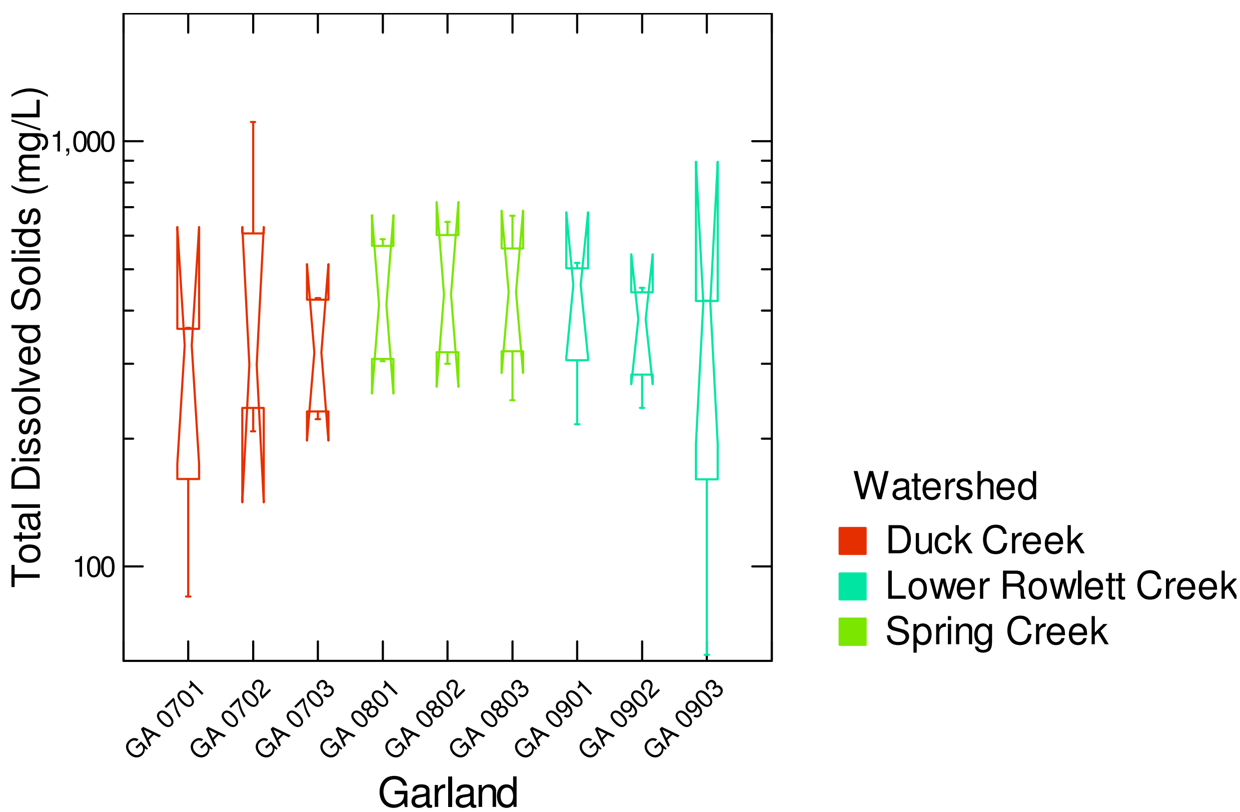


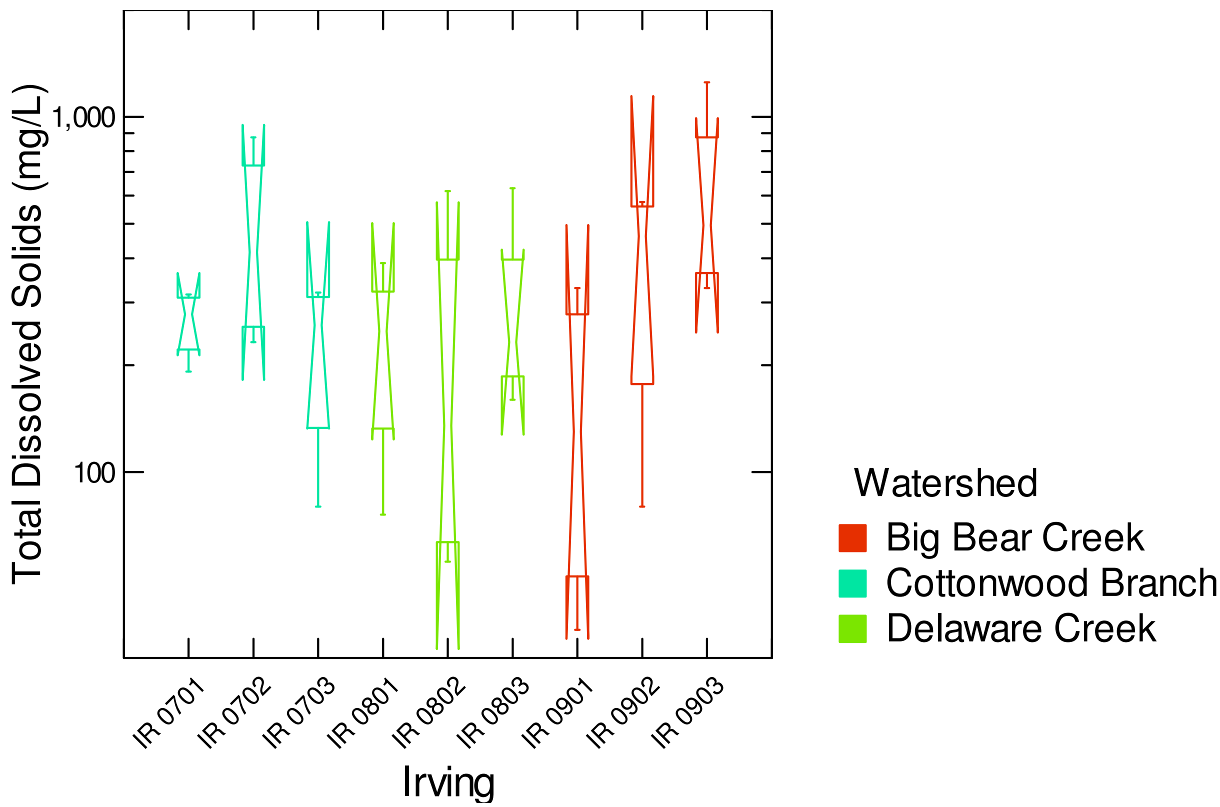
Total Dissolved Solids (mg/L)
1,000
100
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek

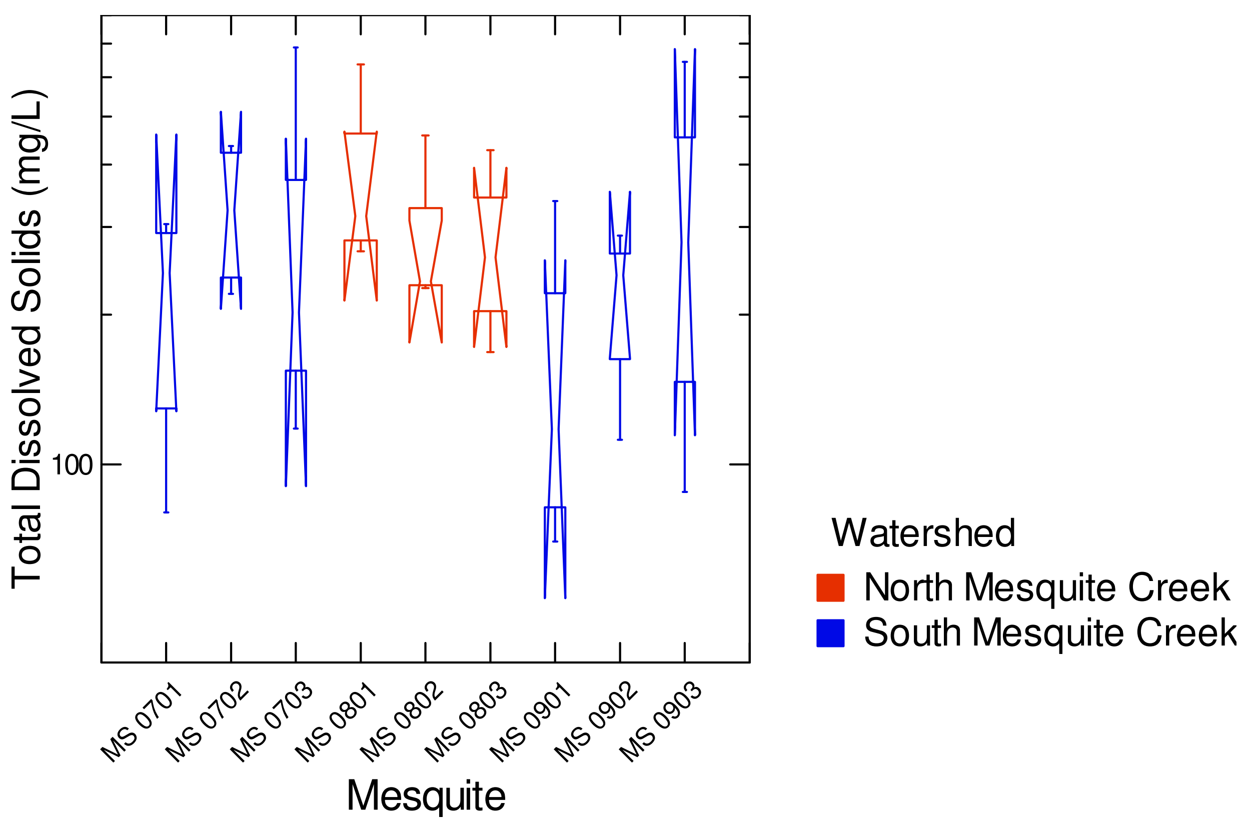


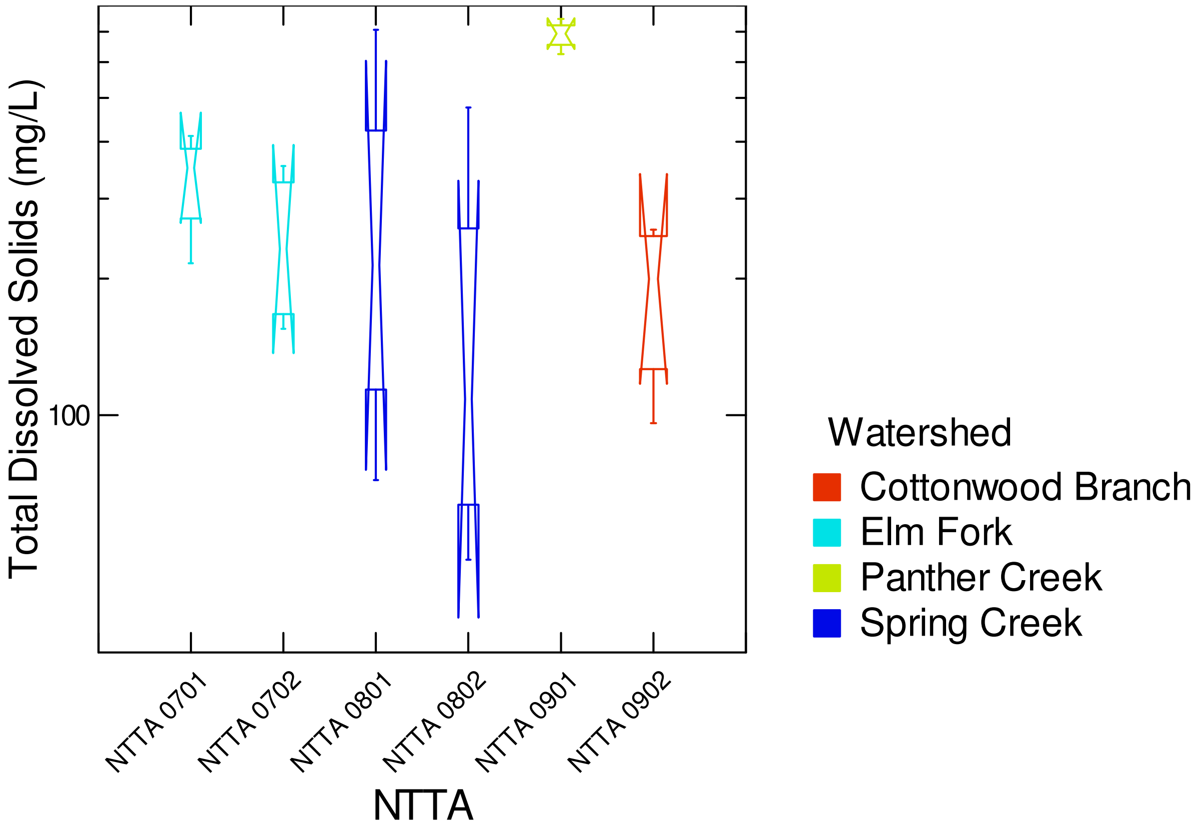
Total Dissolved Solids (mg/L)
1,000
100
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas

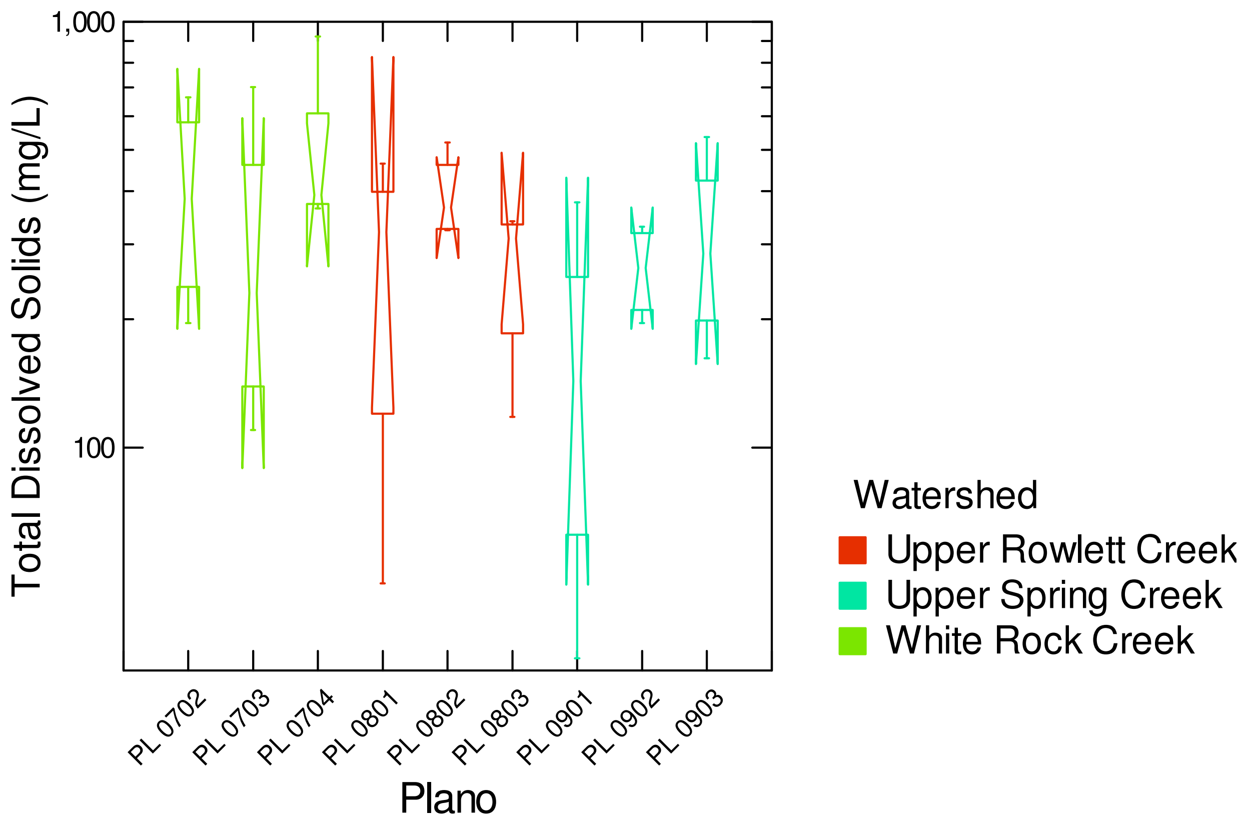

Total Dissolved Solids (mg/L)
1,000
100
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek

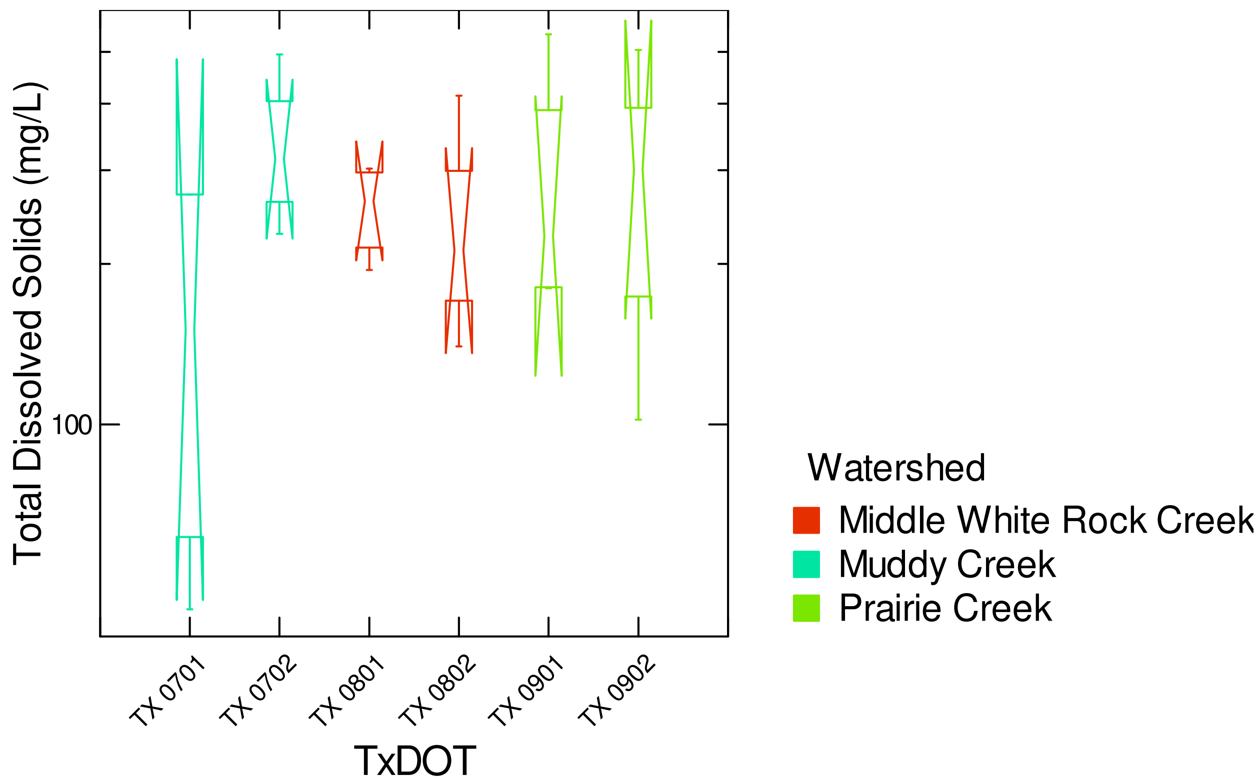

Total Dissolved Solids (mg/L)
1,000
100
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek


Total Dissolved Solids (mg/L)
1,000
100
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek


Total Dissolved Solids (mg/L)
100
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek


Total Dissolved Solids (mg/L)
100
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek


Total Dissolved Solids (mg/L)
1,000
100
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek


Total Dissolved Solids (mg/L)
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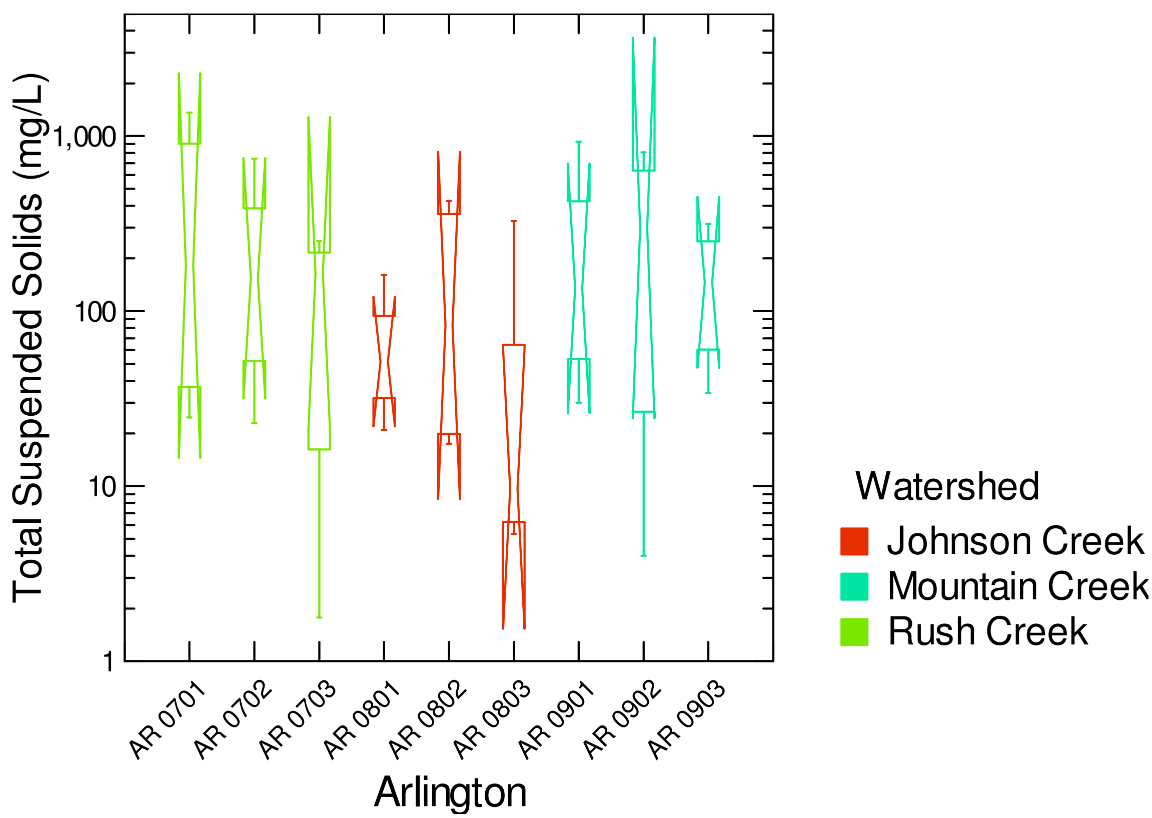
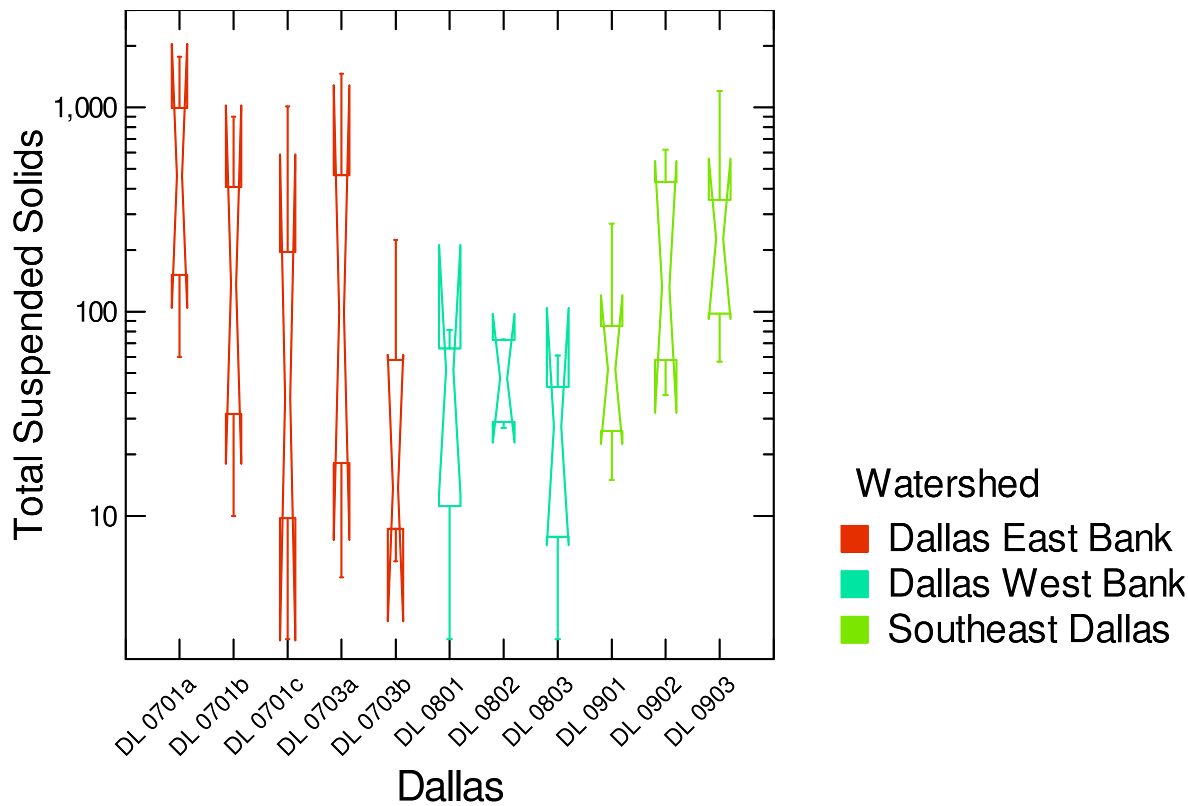
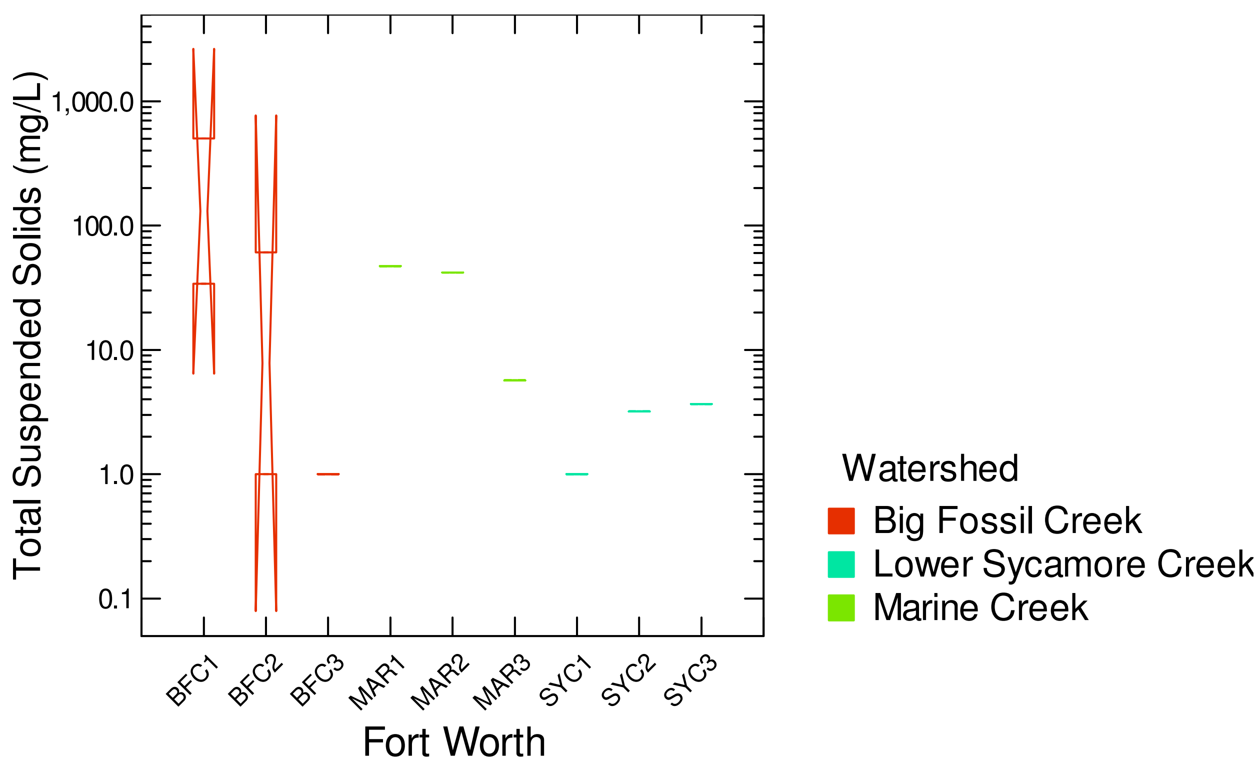
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek


Total Suspended Solids (mg/L)
1,000
100
10
1
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek


Total Suspended Solids
1,000
100
10
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas


Total Suspended Solids (mg/L)
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100.0
10.0
1.0
0.1
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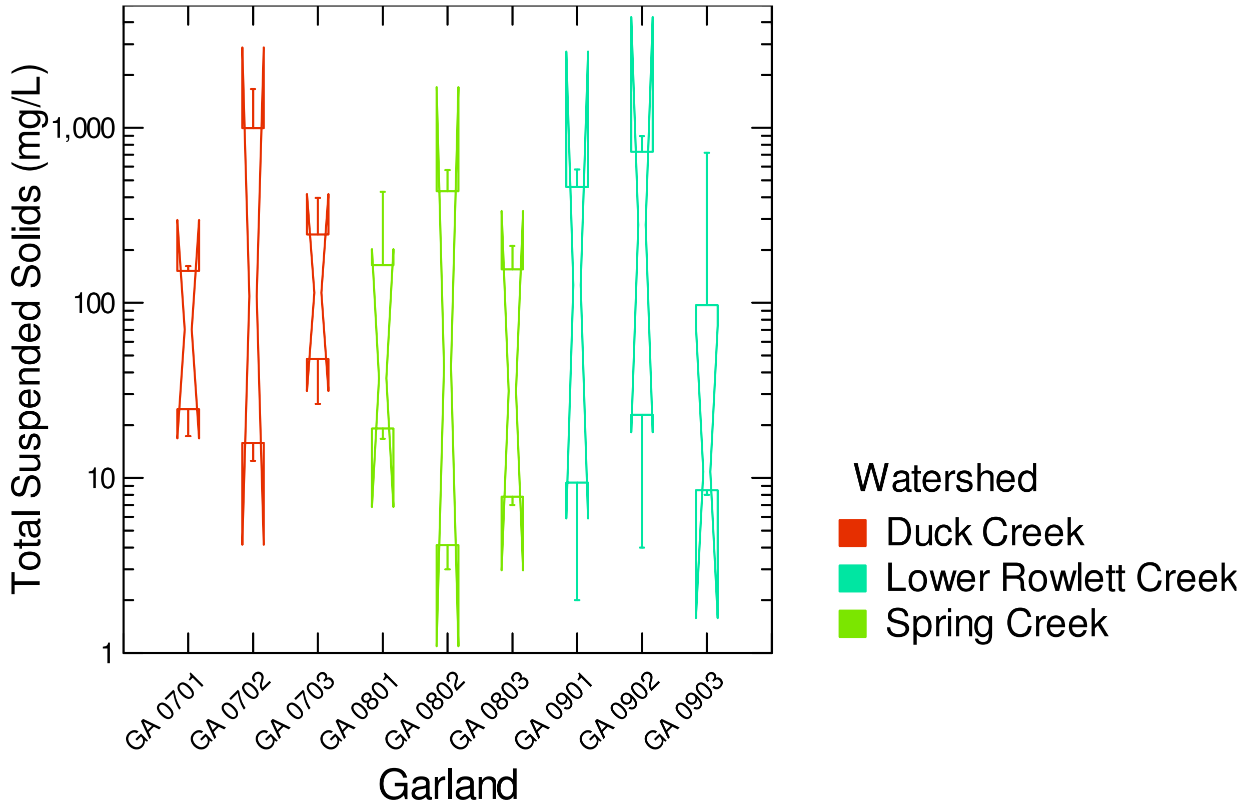
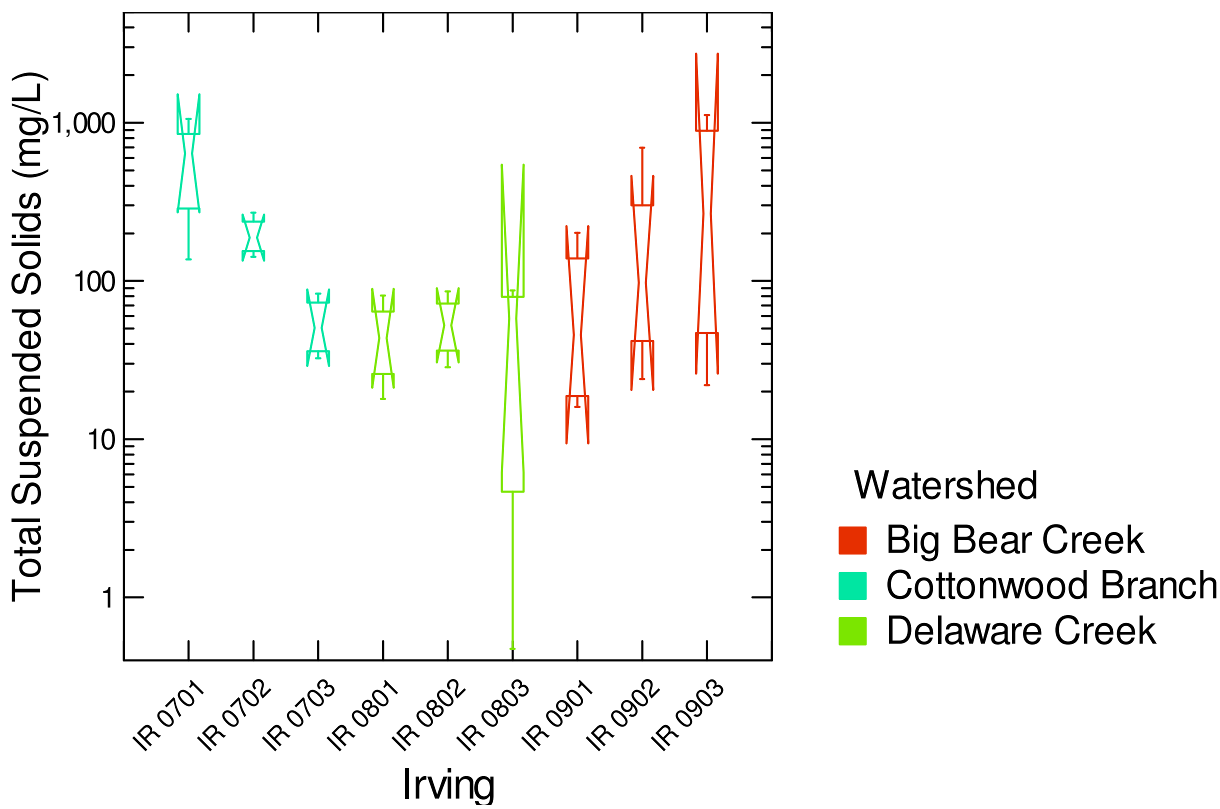
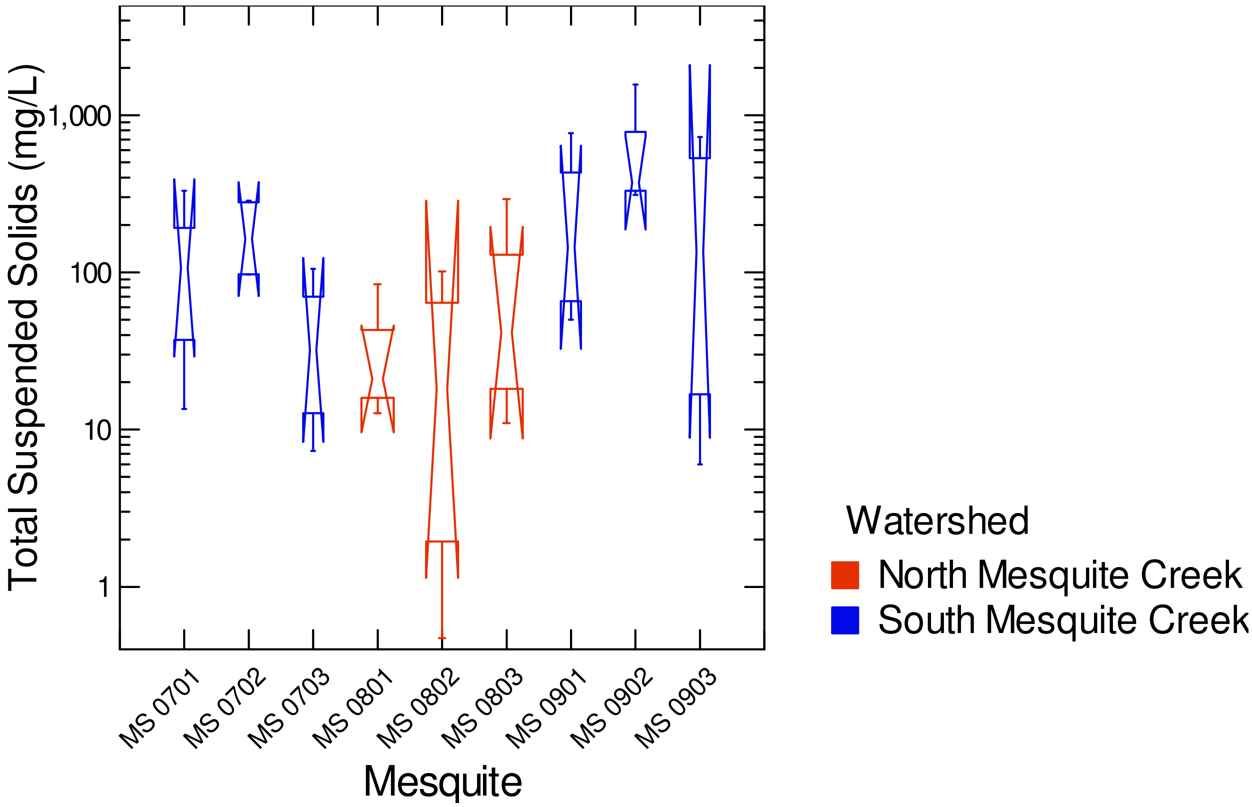
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek



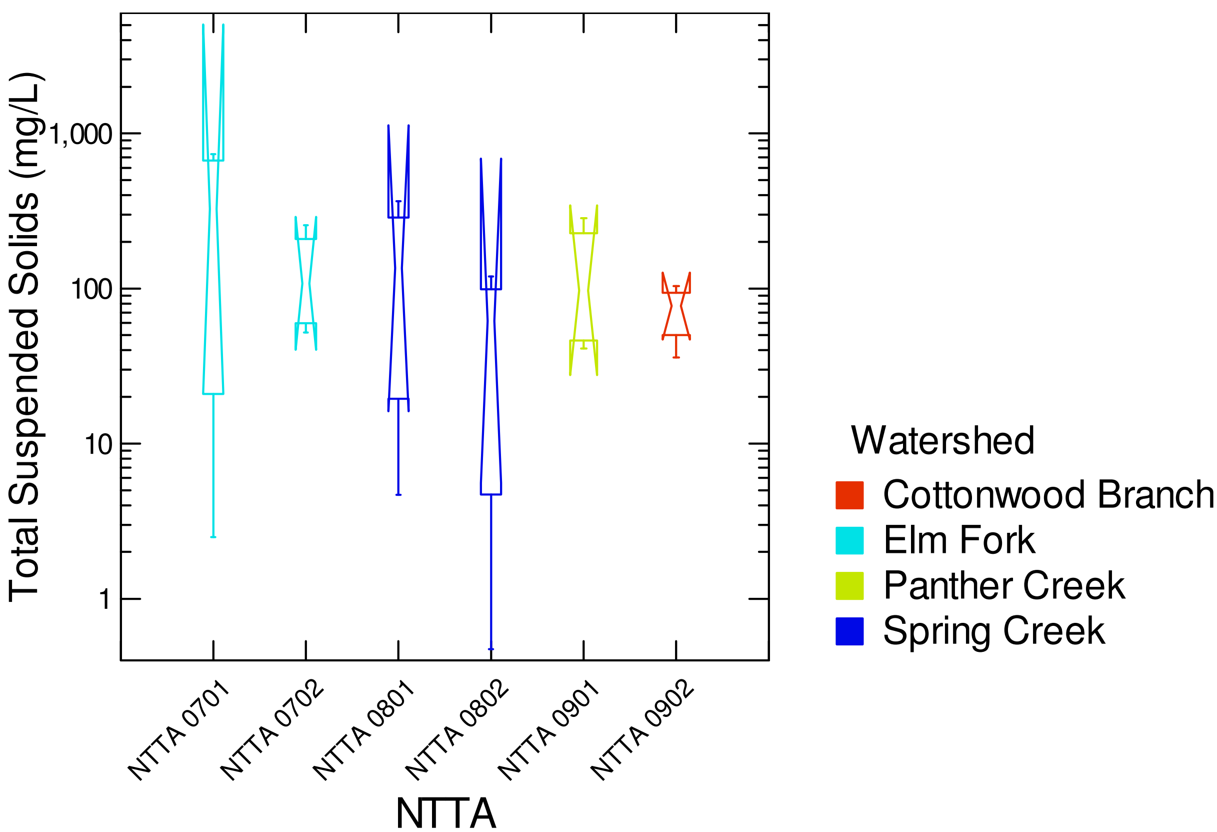
Total Suspended Solids (mg/L)
1,000
100
10
1
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek



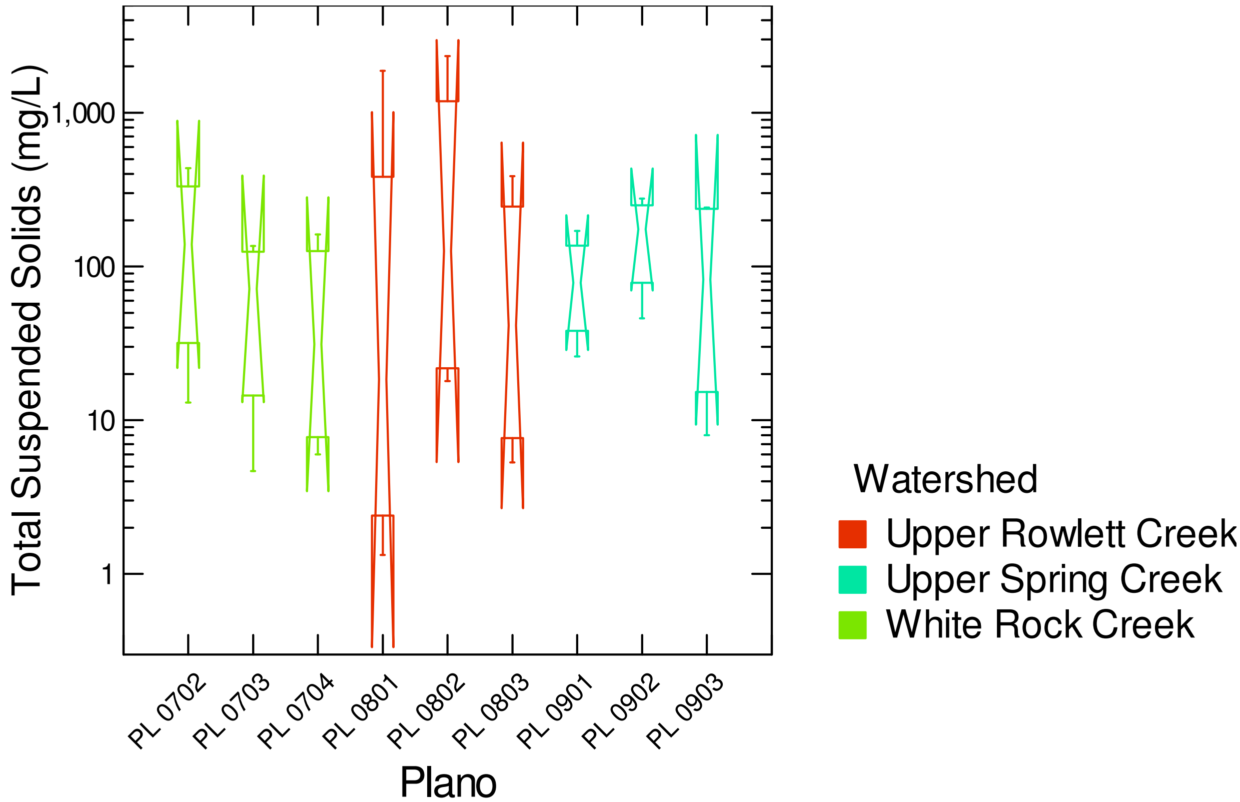
Total Suspended Solids (mg/L)
1,000
100
10
1
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek

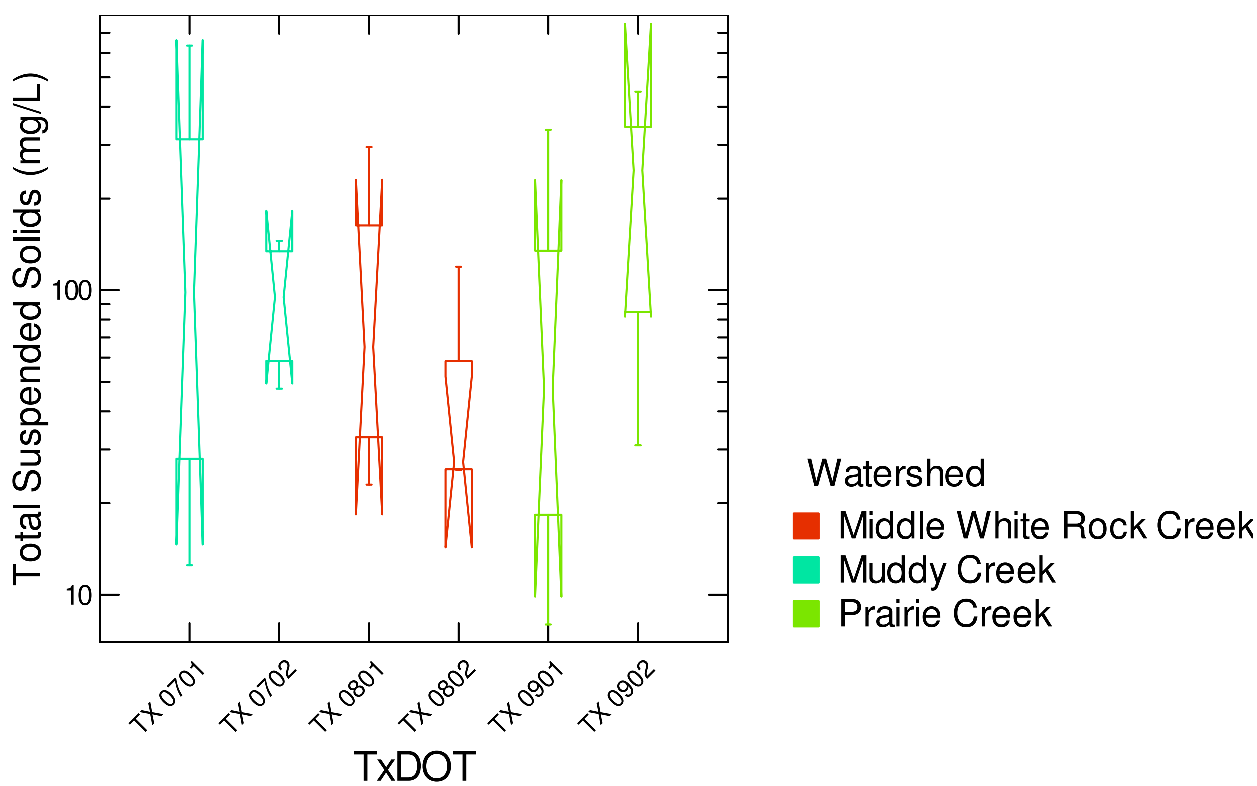


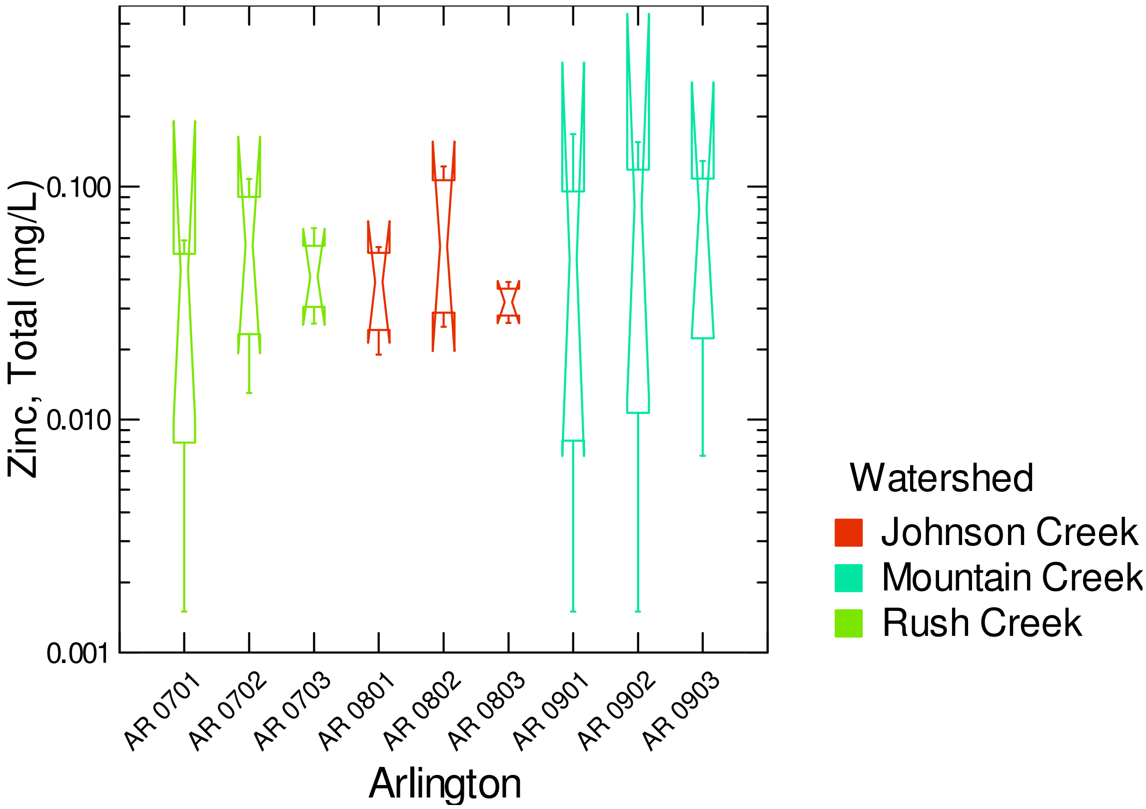
Total Suspended Solids (mg/L)
1,000
100
10
1
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek



Total Suspended Solids (mg/L)
1,000
100
10
1
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek


Total Suspended Solids (mg/L)
1,000
100
10
1
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek


Total Suspended Solids (mg/L)
100
10
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek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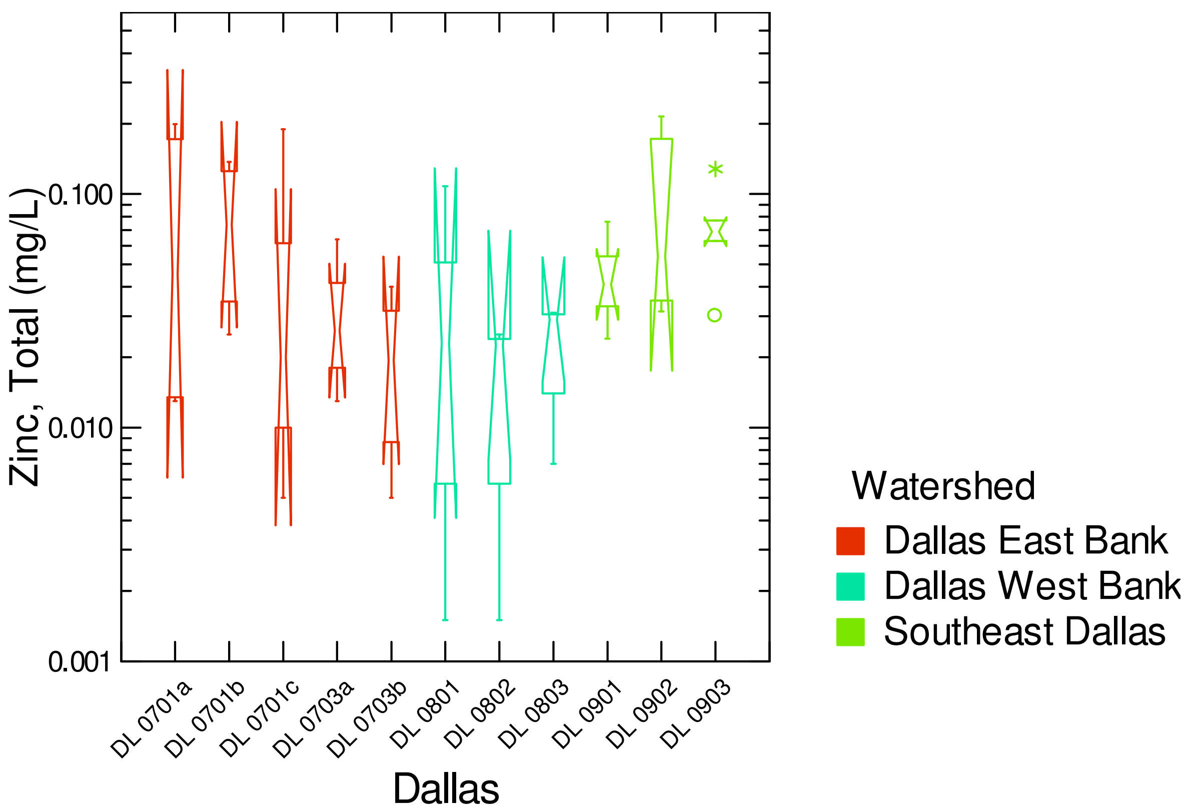
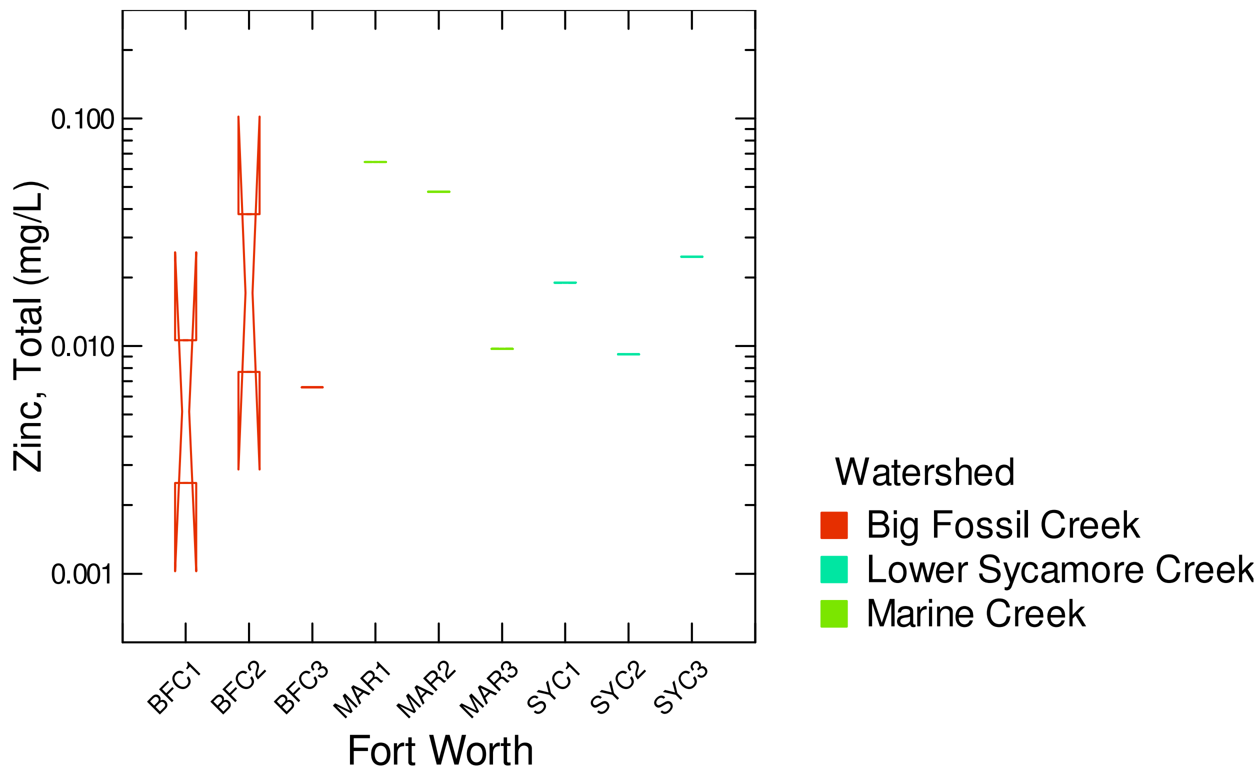
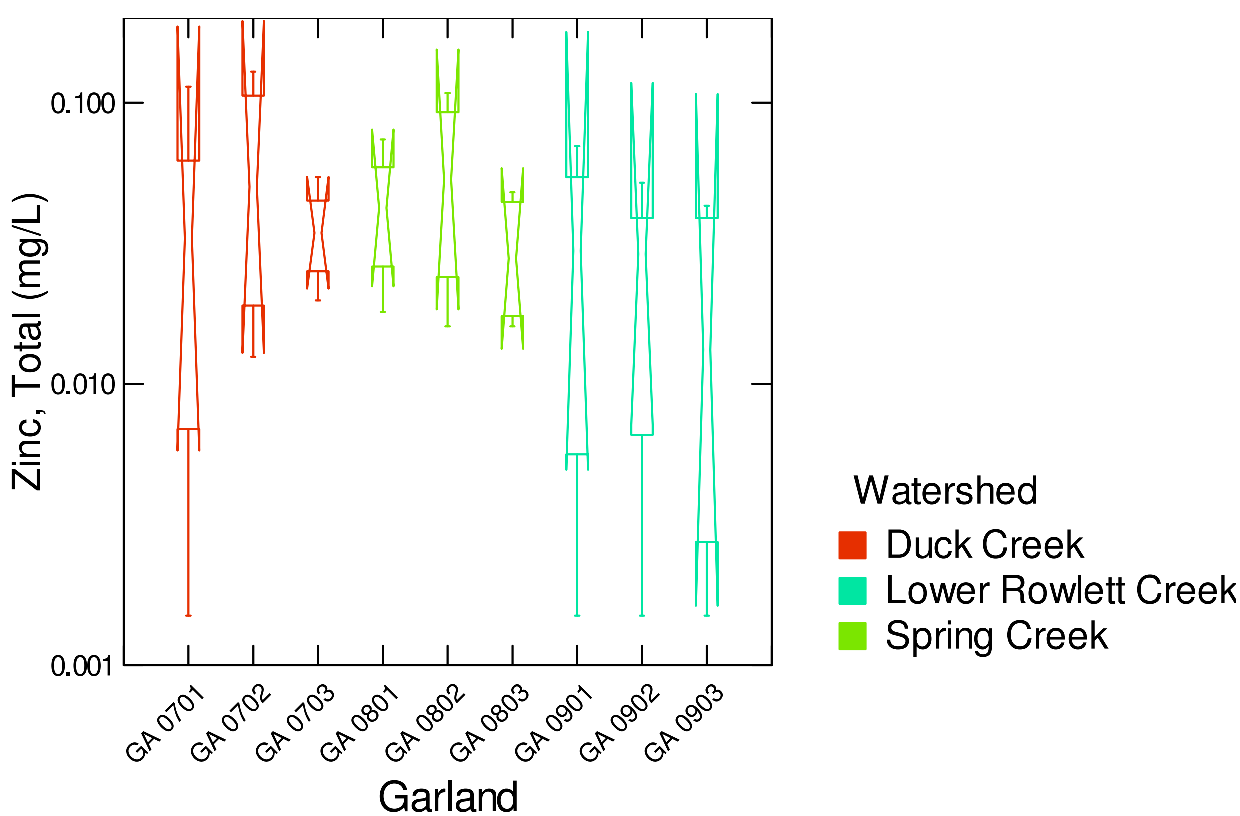
0.100
0.010
0.001
AR 0701
AR 0702
AR 0703
AR 0801
AR 0802
AR 0803
AR 0901
AR 0902
AR 0903
Arlington
Watershed
Johnson Creek
Mountain Creek
Rush Creek

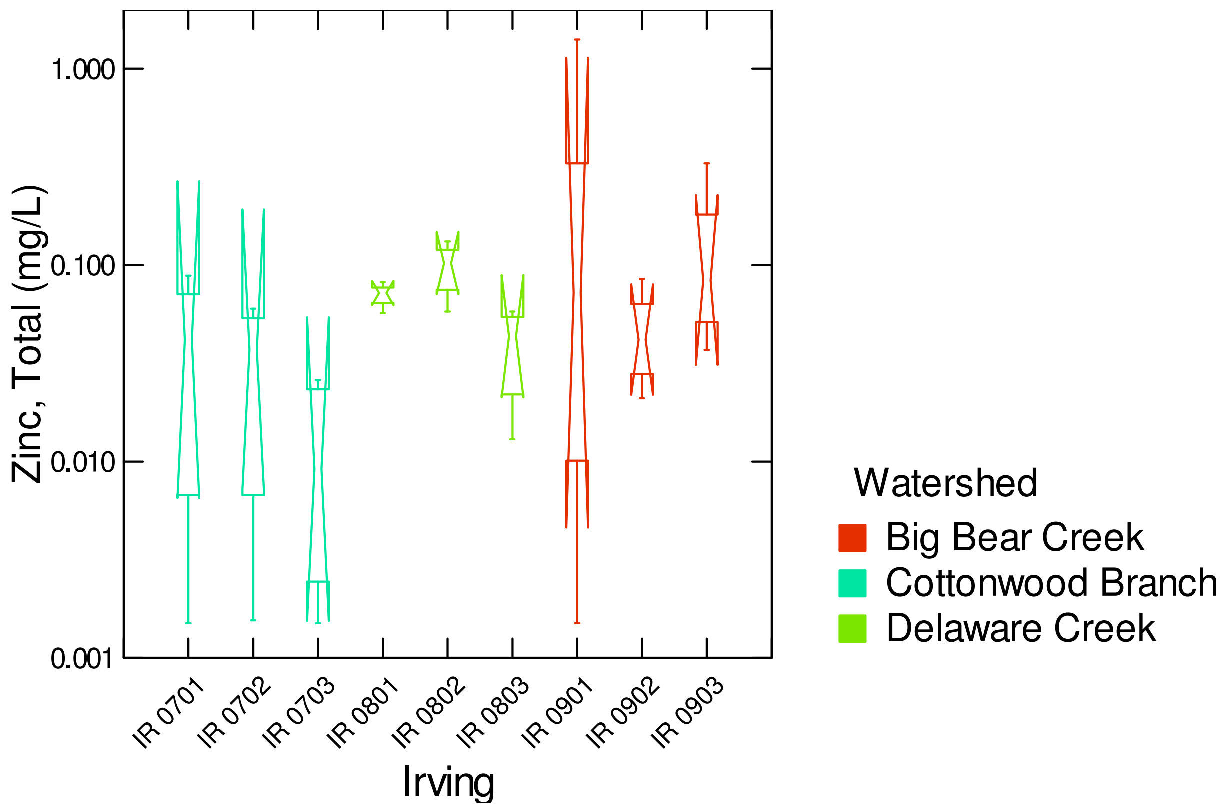

Zinc, Total (mg/L)
0.100
0.010
0.001
DL 0701a
DL 0701b
DL 0701c
DL 0703a
DL 0703b
DL 0801
DL 0802
DL 0803
DL 0901
DL 0902
DL 0903
Dallas
Watershed
Dallas East Bank
Dallas West Bank
Southeast Dallas

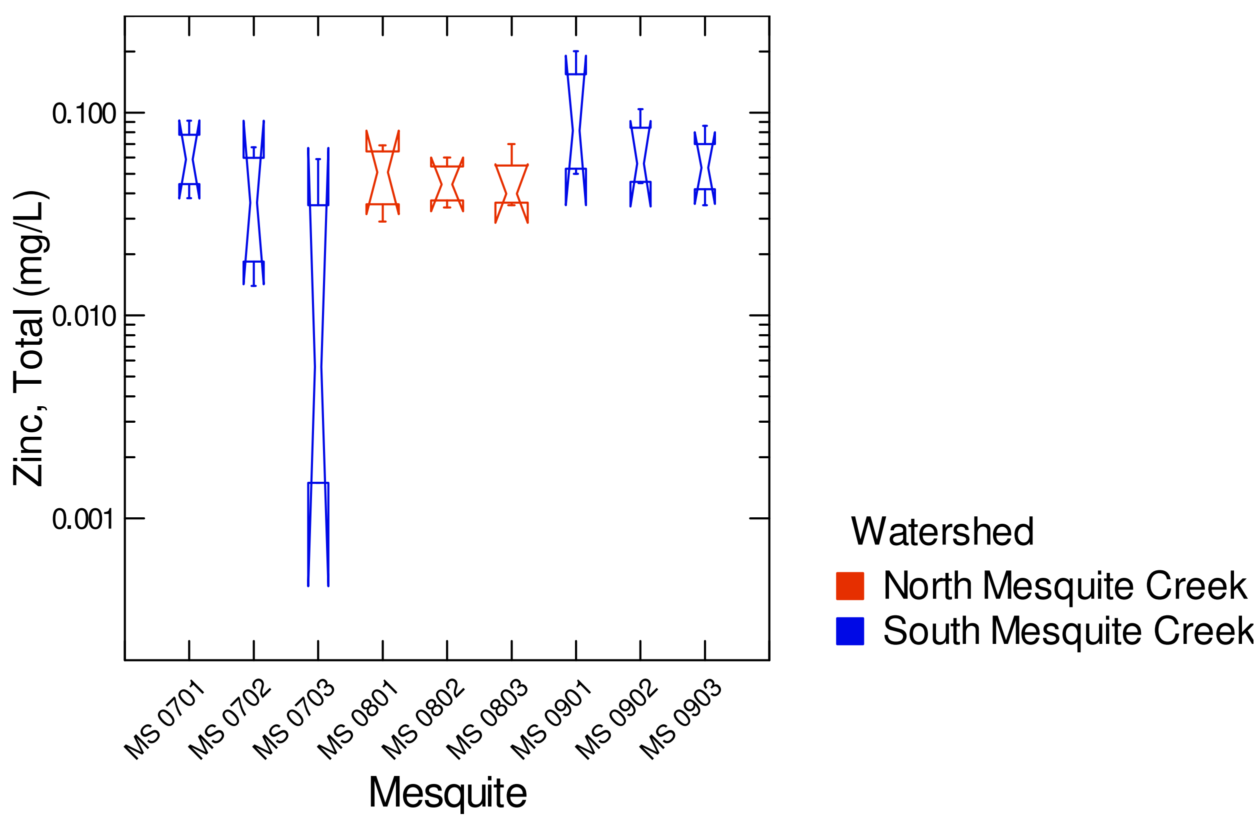


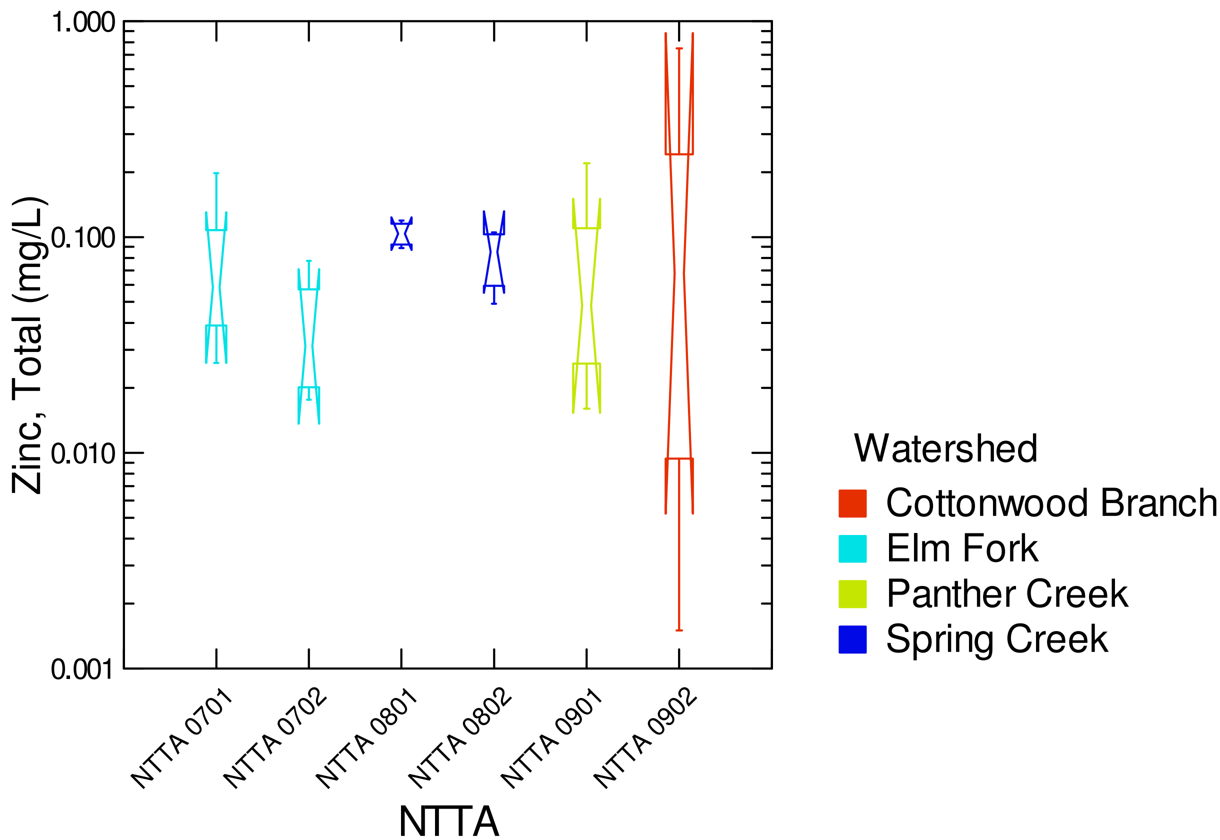
Zinc, Total (mg/L)
0.100
0.010
0.001
BFC1
BFC2
BFC3
MAR1
MAR2
MAR3
SYC1
SYC2
SYC3
Fort Worth
Watershed
Big Fossil Creek
Lower Sycamore Creek
Marine Creek



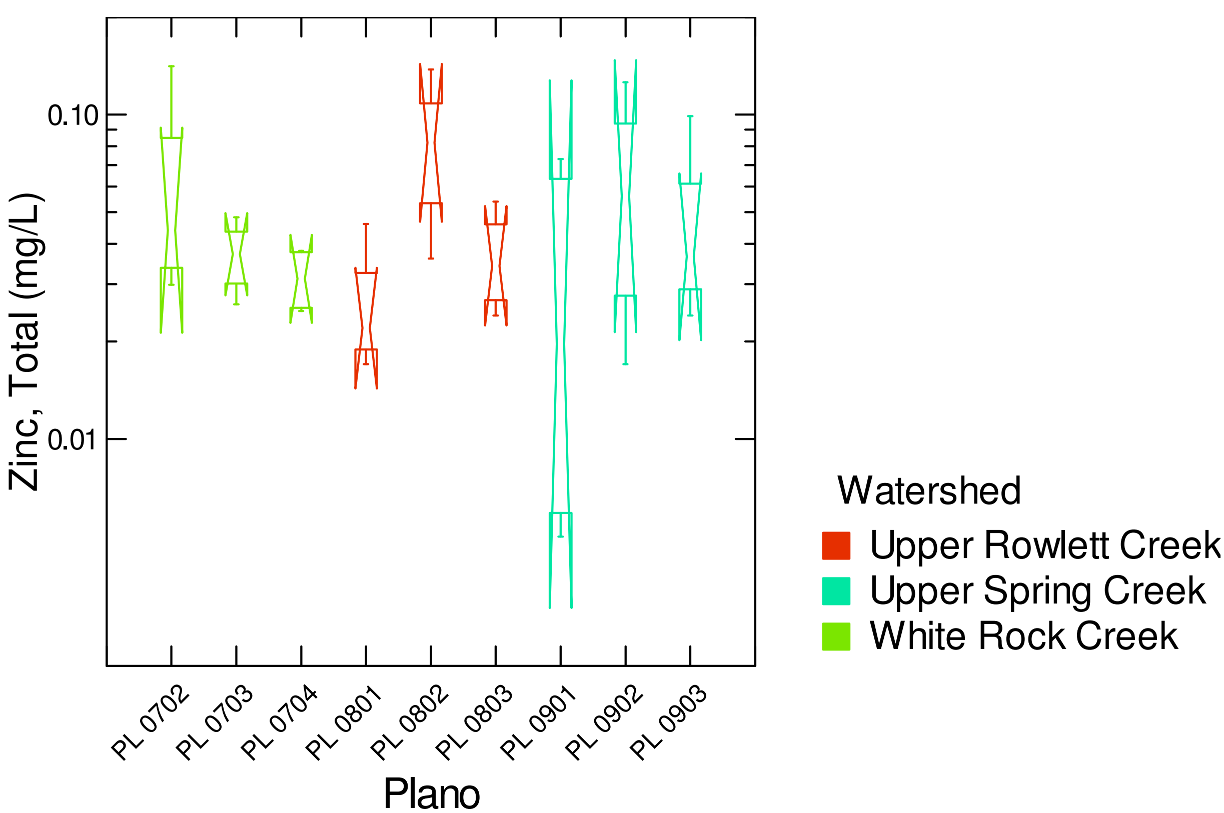
Zinc, Total (mg/L)
0.100
0.010
0.001
GA 0701
GA 0702
GA 0703
GA 0801
GA 0802
GA 0803
GA 0901
GA 0902
GA 0903
Garland
Watershed
Duck Creek
Lower Rowlett Creek
Spring Creek


Zinc, Total (mg/L)
1.000
0.100
0.010
0.001
IR 0701
IR 0702
IR 0703
IR 0801
IR 0802
IR 0803
IR 0901
IR 0902
IR 0903
Irving
Watershed
Big Bear Creek
Cottonwood Branch
Delaware Creek

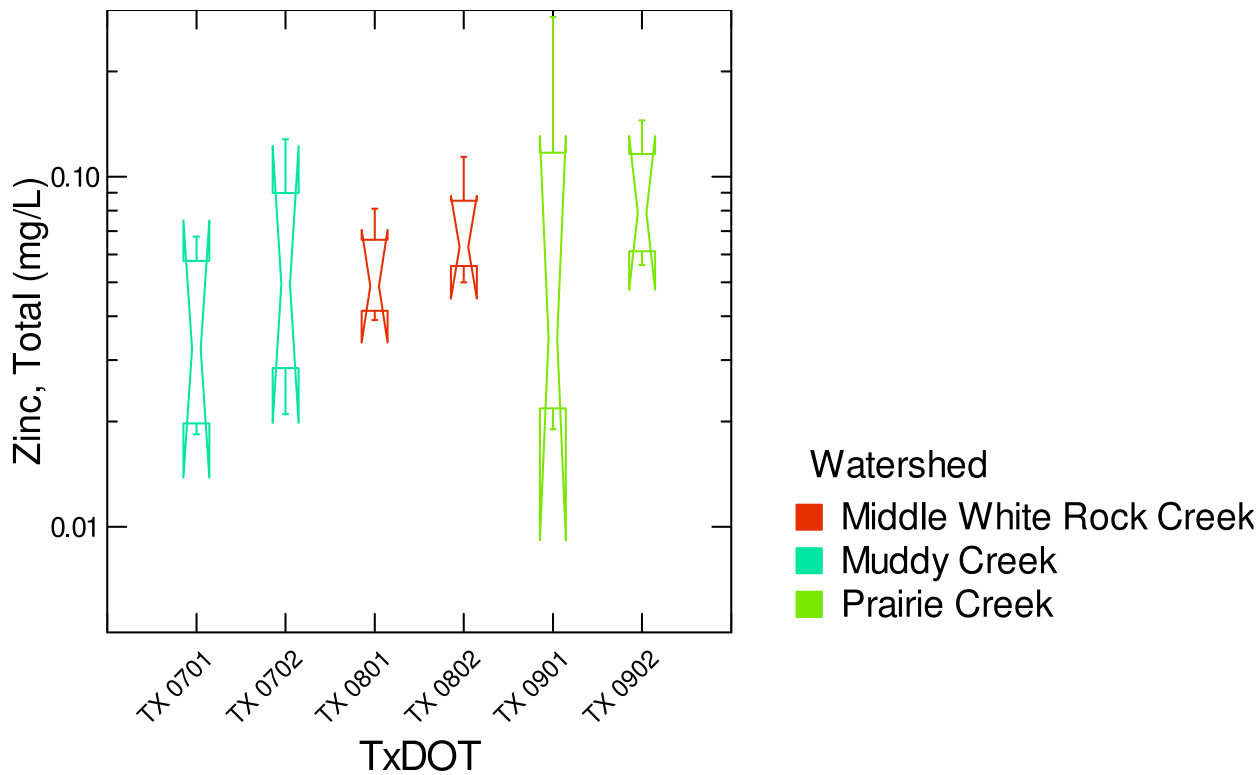

Zinc, Total (mg/L)
0.100
0.010
0.001
MS 0701
MS 0702
MS 0703
MS 0801
MS 0802
MS 0803
MS 0901
MS 0902
MS 0903
Mesquite
Watershed
North Mesquite Creek
South Mesquite Creek



1.000
0.100
0.010
0.001
Zinc, Total (mg/L)
NTTA 0701
NTTA 0702
NTTA 0801
NTTA 0802
NTTA 0901
NTTA 0902
NTTA
Watershed
Cottonwood Branch
Elm Fork
Panther Creek
Spring Creek



0.10
0.01
Zinc, Total (mg/L)
PL 0702
PL 0703
PL 0704
PL 0801
PL 0802
PL 0803
PL 0901
PL 0902
PL 0903
Plano
Watershed
Upper Rowlett Creek
Upper Spring Creek
White Rock Creek



0.10
0.01
Zinc, Total (mg/L)
TX 0701
TX 0702
TX 0801
TX 0802
TX 0901
TX 0902
TxDOT
Watershed
Middle White Rock Creek
Muddy Creek
Prairie Creek

Appendix G

Cities of Dallas and Fort Worth Data

Cities of Dallas and Fort Worth Regional Wet Weather Data

Site_ID	Date	Rainfall Total (in)	Antecendent Dry Period (Days)	TDS (mg/L)	TSS (mg/L)	BOD (mg/L)	COD (mg/L)	Nitrogen Total (mg/L)	Phosporus Dissolved (mg/L)	Diazinon (ug/L)	Arsenic Total (mg/L)	Copper Total (mg/L)	Cadmium Total (mg/L)	Lead Total (mg/L)	Zinc Total (mg/L)	Phosphorus Total (mg/L)	Chromium Total (mg/L)	Oil & Grease (mg/L)	pH (lab)	pH (field)	E.Coli (cfu)	Coliforms Total (cfu)
DL0701a	3/27/2007	0.68	13	332	382	12.20	66.9	5.37	<0.01	<0.5	<0.01	<0.01	<0.005	<0.012	0.014	1.390	<0.005	<5	7.91		18000	15000
DL0701a	5/1/2007	0.24	6	364	60	4.03	38.7	1.32	0.055	<0.5	<0.01	<0.01	<0.005	<0.012	0.013	0.136	<0.005	<5	7.25		525	30000
DL0701a	8/31/2007	0.88	6	324	1770	7.01	<20	7.43	0.099	<0.5	<0.01	0.038	<0.005	0.044	0.148	2.210	0.018	<5		7.80	689	50000
DL0701a	11/26/2007	0.96	33	324	557	6.19	57.8	1.15	0.316	<0.5	<0.01	0.077	<0.005	0.065	0.199	0.558	0.024	<5		7.60	722	4300
DL0701b	4/14/2007	0.32	13	204	<20	29.20	54.2	2.01		<0.5	<0.01	0.043	<0.005	0.025	0.137		0.010	<5	7.78		228	50000
DL0701b	3/27/2007	1.08	13	454	184	31.60	105	2.75	0.029	<0.5	<0.01	0.019	<0.005	<0.012	0.048	0.620	<0.005	<5	7.9		48000	40000
DL0701b	8/31/2007	0.68	6	132	900	22.60	244	2.05	0.099	<0.5	<0.01	0.014	<0.005	0.02	<0.05	0.313	<0.005	<5		7.70		
DL0701b	11/26/2007	1.24	32	240	100	7.56	47.5	1.6	0.157	<0.5	<0.01	0.029	<0.005	0.04	0.114	0.388	0.013	<5		7.60	689	12400
DL0701c	5/8/2007	0.36	6	282	38	5.66	19.4	1.01	0.175	<0.5	<0.01	<0.01	<0.005	<0.012	0.02	0.156	<0.005	<5	7.75		260	3600
DL0701c	8/31/2007	1.00	5	240	1010	4.87	125	2.08	0.104	<0.5	0.01	0.054	<0.005	0.116	0.189	0.323	0.057	<5		7.80		
DL0701c	12/10/2007	0.28	15	328	<5	<2	<20	0.458	0.039	<0.5	<0.01	<0.01	<0.005	<0.012	<0.01	0.077	<0.005	<5		7.60	123	12300
DL0703a	4/14/2007	0.36	10	296	<10	4.66	51.7	2.38	0.067	<0.5	<0.01	<0.01	<0.005	<0.012	0.013	0.561	<0.005	<5	7.37		870	150000
DL0703a	3/27/2007	0.87	13	450	1460	15.80	116	2.32	0.093	<0.5	<0.01	<0.01	<0.005	0.018	0.027	1.850	0.006	<5	7.6		9000	1000000
DL0703a	8/31/2007	1.28	5	260	66	3.22	20.8	3.74	0.097	<0.5	0.011	0.012	<0.005	0.02	<0.05	0.516	0.010	<5		7.80		
DL0703a	11/26/2007	1.32	34	152	148	6.75	37.2	<1	0.149	<0.5	<0.01	0.013	<0.005	0.037	0.064	0.304	0.013	<5		7.70	659	18300
DL0703b	3/27/2007	0.87	13	464	224	8.74	41.1	1.68	<0.01	<0.5	<0.01	<0.01	<0.005	<0.012	0.015	0.545	<0.005	<5	7.93		1000	60000
DL0703b	4/14/2007	0.36	10	470	<25	2.68	26.4	0.917	<0.05	<0.5	<0.01	0.017	<0.005	<0.012	0.04	0.189	0.006	<5	7.91		41	40000
DL0703b	8/31/2007	1.28	5	272	15	2.42	<20	1.04	0.097	<0.5	<0.01	<0.01	<0.005	<0.012	<0.05	0.110	<0.005	<5		7.80	18	20000
DL0703b	12/2/2007	0.12	7	302	6	<2	<20	0.683	0.017	<0.5	<0.01	<0.01	<0.005	<0.012	<0.01	0.039	<0.005	<5		7.80	<1	35000
DL0801	3/3/2008	0.84	15	721	< 5	<1.5	<5	<0.45	<0.005	< 0.05	< 0.003	<0.003	<0.002	<0.004	<0.003	0.013	<0.002	<1.16		7.70	361	15200
DL0801	4/9/2008	0.36	5	470	50	6.30	30.5	1.31	0.020	< 0.05	< 0.003	<0.003	<0.002	0.009	0.022	0.078	0.009	<1.16		8.23	792	1010
DL0801	8/18/2008	0.20	3	95	81	8.60	12.5	1.15	0.297	< 0.05	0.006	0.016	<0.002	0.014	0.108	0.160	0.010	1.9		7.97	36540	>241960
DL0801	10/15/2008	0.32	8	194	54	11.70	16.1	1.1	<0.005	< 0.05	< 0.003	0.005	<0.002	0.004	0.024	0.127	0.004	<1.16		7.80	30	8297
DL0802	3/3/2008	0.96	14	167	27	9.30	<5	<0.45	0.044	< 0.05	< 0.003	<0.003	<0.002	<0.004	0.025	0.090	<0.002	<1.16		7.60		
DL0802	4/18/2008	1.44	7	420	72	9.17	36.7	0.773	<0.005	< 0.05	< 0.003	<0.003	<0.002	<0.004	<0.003	0.141	<0.002	<1.16		8.11	62	>20000
DL0802	8/15/2008	0.64	31	290	73	10.80	44.9	1.09	0.142	< 0.05	< 0.003	<0.003	<0.002	<0.004	0.022	0.891	<0.002	<1.16		7.42	1565	>241960
DL0802	10/15/2008	0.20	9	236	31	3.56	<5	1.29	<0.005	< 0.05	< 0.003	0.005	<0.002	0.0005	0.023	0.113	0.004	2.6		7.70	4080	241960
DL0803	3/3/2008	1.04	14	28	30	6.76	<5	1.14	0.094	< 0.05	< 0.003	<0.003	<0.002	<0.004	0.03	0.187	<0.002	<1.16		7.50	659	35100
DL0803	4/9/2008	0.40	5	636	< 5	3.96	<5	0.46	0.015	< 0.05	< 0.003	<0.003	<0.002	<0.004	0.007	0.036	<0.002	<1.16		7.79	602	1010
DL0803	8/15/2008	0.64	31	186	61	10.70	30	1.73	0.162	< 0.05	< 0.003	<0.003	<0.002	<0.004	0.031	0.501	<0.002	<1.16		7.92	14136	>41960
DL0803	11/6/2008	0.24	22	190	25	15.70	20.6	0.88	0.210	< 0.05	< 0.003	0.006	<0.002	<0.004	0.028	0.293	<0.002	<1.16		7.60	64880	>241960
DL-0901	3/11/2009	1.06	28	202	15	4.22	40.1	1.34	0.243	< 0.05	< 0.003	0.010	< 0.003	0.017	0.054	0.258	0.004	4.9		7.53	3448	173290
DL-0901	4/27/2009	1.24	10	320	26	3.11	16.1	3	0.138	< 0.05	0.004	0.005	< 0.003	< 0.003	0.041	0.224	< 0.003	< 1.1		7.40	96106	101120
DL-0901	6/11/2009	4.28	15	156	52	7.07	19.7	NA	0.699	< 0.05	0.006	0.007	< 0.003	0.007	0.033	1.350	0.003	< 1.1		7.50	7,215	241960
DL-0901	8/21/2009	1.04	18	32	85	17.30	75.5	1.72	0.088	<0.375	< 0.003	0.01	<0.001	0.005	0.024	0.257	0.002	1.71		7.97	24,196	241960
DL-0901	11/16/2009	0.16	17	216	270	75.10	301	4.91	0.407	<0.375	0.005	0.0206	<0.006	0.008	0.076	0.602	0.004	<1.1		7.03	38,700	241960
DL-0902	3/11/2009	1.02	28	220	39	92.40	262	40.6	0.405	< 0.05	< 0.003	0.045	< 0.003	0.045	0.215	0.557	0.014	3.6		7.56	51720	241960
DL-0902	4/27/2009	1.24	10	146	622	18.70	108	4.3	0.179	< 0.05	< 0.003	0.034	< 0.003	0.059	0.172	0.514	0.030	4.6		7.40	241960	241960
DL-0902	6/11/2009	4.28	15	84	58	5.73	14.9	NA	0.322	< 0.05	0.005	0.008	< 0.003	0.011	0.035	0.458	0.00600	< 1.1		7.70	8704	241960
DL-0902	8/21/2009	1.04	18	60	432	21.30	64.4	1.9	0.127	<0.375	< 0.003	0.012	<0.001	0.017	0.054	0.402	0.01500	< 1.1		8.19	241960	241,960
DL-0902	11/16/2009	0.16	17	128	132	11.80	68	2.6	0.127	<0.375	<.0046	<.009	<0.006	0.00831	0.0314	0.316	0.00500	<1.1		7.53	1780	241,960
DL-0903	3/11/2009	0.99	28	172	1200	76.10	257	4.22	0.075	< 0.05	< 0.003	0.026	< 0.003	0.032	0.128	0.655	0.014	2.2		7.52	241960	30760
DL-0903	4/27/2009	1.16	10	126	227	8.69	68.5	2.15	0.281	< 0.05	< 0.003	0.016	< 0.003	0.013	0.077	0.354	0.012	< 1.1		7.35	51720	241960
DL-0903	6/11/2009	6.72	15	32	98	4.05	5.31	NA	0.190	< 0.05	0.004	0.007	< 0.003	0.006	0.03	0.268	0.003	< 1.1		7.40	565	198630
DL-0903	8/21/2009	0.64	9	56	352	27.90	61.6	1.9	0.072	<0.375	< 0.003	0.012	<0.001	0.013	0.063	0.571	0.008	< 1.1		8.10	4106	241960
DL-0903	11/16/2009	0.40	17	236	57	2.10	44.4	2.86	0.178	<0.375	<.0046	0.014	<0.006	0.0164	0.069	0.420	0.0074	<1.1		7.55	570	241960
BFC1	6/16/2007	1.51	11	330	34	5	213	1.01	0.06	.001<	.025<	0.0046	.005<	.025<	0.0106	0.19	.005<	5.4<			517	68670
BFC1	7/20/2007	0.93	13	459	502	2<	11	0.64	0.19		.05<	.005<	.005<	0.05	.005<	0.04	.005<	5.3<			46	24192
BFC2	6/16/2007	1.51	11	370	2<	2<	209	0.23<	0.29	.001<	.025<	0.0033	.005<	.025<	0.0077	0.29	.005<	17.80			1986	57940
BFC2	8/1/2007	0.29	8	330	61	2	32	0.329	0.1		0.11	0.01	.005<	0.05	0.038	.01<	.025<	5.2<			461	17329
BFC3	6/16/2007	1.51	11	340	2<	2<	63	.23<	0.14	.001<	.025<	0.0028	.005<	.025<	0.0066	0.19	.005<	36.2			15531	98040
SYC1	12/9/2008	0.05	9	1610	1	1 J	18.5 J	1.5<	0.03	.006< ND	.002< U	.0059< U	.004 J	.002< U	.019 J	0.04	.002< U	3.8	7.38		38	1414
SYC2	12/18/2008	0.09	8	44	3.2	0.45 U	13 J	0.62	.02 J	.01< ND	.005< U	.0103 J	.002 J	.002 J	.092 J	0.05	.002< U	.85< U	7.83		75	1,986
SYC3	12/18/2008	0.09	8	446	3.7	.45< U	15.8 J	0.46	.02 J	.01< ND	.005< U	0.0086 J	.005 J	.002 J	0.0247	0.03	.002< U	.85< U	7.92		93	1413
MAR1	12/1/2009	0.55	9	204	47	5.4	48.3	1.1	0.11	.006< U	.002< U	.009 J	.001 J	0.008	0.0644	0.17	.002< U	1.6 J			579	9804
MAR2	12/1/2009	0.55	9	268	42	6.2	46.3	2	.1 J	.006< U	.002< U	.0117 J	3E-04< U	0.009	0.0476	0.16	.002< U	1.3 J			12033	77010
MAR3	12/1/2009	0.55	9	308	5.7	7.9	4.2< U	1.8	.04 J	.006< U	.002< U	.0059< U	5.00E-04	0.003	0.0097 J	0.05 J	.002< U	1 J			1986	24192

Appendix H

Seasonal Variability Group Summary Statistics

Results for CITY$ = Arlington QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.001
Arithmetic Mean	0.002
Geometric Mean	0.001
Standard Deviation	0.001

Results for CITY$ = Arlington QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.003
Arithmetic Mean	0.003
Geometric Mean	0.003
Standard Deviation	0.002

Results for CITY$ = Arlington QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.005
Arithmetic Mean	0.006
Geometric Mean	0.005
Standard Deviation	0.004

Results for CITY$ = Arlington QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.004
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.003

Results for CITY$ = Dallas QUARTER = 1.000

Data for the following results were selected according to

```
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    10
Median             ¦ 0.002
Arithmetic Mean    ¦ 0.003
Geometric Mean     ¦ 0.002
Standard Deviation ¦ 0.002
```

Results for CITY$ = Dallas QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    14
Median             ¦ 0.005
Arithmetic Mean    ¦ 0.004
Geometric Mean     ¦ 0.003
Standard Deviation ¦ 0.002
```

Results for CITY$ = Dallas QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    11
Median             ¦ 0.005
Arithmetic Mean    ¦ 0.005
Geometric Mean     ¦ 0.003
Standard Deviation ¦ 0.003
```

Results for CITY$ = Dallas QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    11
Median             ¦ 0.005
Arithmetic Mean    ¦ 0.004
Geometric Mean     ¦ 0.003
Standard Deviation ¦ 0.002
```

Results for CITY$ = Fort Worth QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     3
Median              ¦ 0.013
Arithmetic Mean     ¦ 0.013
Geometric Mean      ¦ 0.013
Standard Deviation  ¦ 0.000
```

Results for CITY$ = Fort Worth QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     2
Median              ¦ 0.018
Arithmetic Mean     ¦ 0.018
Geometric Mean      ¦ 0.017
Standard Deviation  ¦ 0.010
```

Results for CITY$ = Fort Worth QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.001
Arithmetic Mean     ¦ 0.002
Geometric Mean      ¦ 0.001
Standard Deviation  ¦ 0.001
```

Results for CITY$ = Garland QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.003
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.002
```

Results for CITY$ = Garland QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.003
```

	VALUE
Arithmetic Mean	0.003
Geometric Mean	0.003
Standard Deviation	0.002

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.008
Arithmetic Mean	0.013
Geometric Mean	0.007
Standard Deviation	0.015

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.001
Arithmetic Mean	0.003
Geometric Mean	0.002
Standard Deviation	0.007

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.001
Arithmetic Mean	0.004
Geometric Mean	0.002
Standard Deviation	0.005

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.004
Arithmetic Mean	0.003
Geometric Mean	0.003
Standard Deviation	0.002

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.005
Arithmetic Mean	0.010
Geometric Mean	0.004
Standard Deviation	0.019

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.001
Arithmetic Mean	0.002
Geometric Mean	0.002
Standard Deviation	0.002

Results for CITY$ = Mesquite QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.005
Arithmetic Mean	0.008
Geometric Mean	0.004
Standard Deviation	0.009

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')

	VALUE
N of Cases	9
Median	0.004
Arithmetic Mean	0.003
Geometric Mean	0.003
Standard Deviation	0.002

Results for CITY$ = Mesquite QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.003
```

Results for CITY$ = Mesquite QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.008
```

Results for CITY$ = NTTA QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.001
Arithmetic Mean     ¦ 0.003
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.004
```

Results for CITY$ = NTTA QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.002
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.001
```

Results for CITY$ = NTTA QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.001
Arithmetic Mean     ¦ 0.004
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.005
```

Results for CITY$ = NTTA QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.009
Arithmetic Mean     ¦ 0.013
Geometric Mean      ¦ 0.008
Standard Deviation  ¦ 0.011
```

Results for CITY$ = Plano QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.003
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.003
```

Results for CITY$ = Plano QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.002
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.002
```

Results for CITY$ = Plano QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')
```

```
                    ¦ VALUE
--------------------+------
```

```
N of Cases           ¦      9
Median               ¦ 0.005
Arithmetic Mean      ¦ 0.006
Geometric Mean       ¦ 0.004
Standard Deviation ¦ 0.005
```

Results for CITY$ = Plano QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                     ¦ VALUE
--------------------+------
N of Cases           ¦      9
Median               ¦ 0.001
Arithmetic Mean      ¦ 0.002
Geometric Mean       ¦ 0.002
Standard Deviation ¦ 0.002
```

Results for CITY$ = TxDOT QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                     ¦ VALUE
--------------------+------
N of Cases           ¦      6
Median               ¦ 0.002
Arithmetic Mean      ¦ 0.003
Geometric Mean       ¦ 0.002
Standard Deviation ¦ 0.002
```

Results for CITY$ = TxDOT QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                     ¦ VALUE
--------------------+------
N of Cases           ¦      6
Median               ¦ 0.003
Arithmetic Mean      ¦ 0.003
Geometric Mean       ¦ 0.003
Standard Deviation ¦ 0.002
```

Results for CITY$ = TxDOT QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                     ¦ VALUE
--------------------+------
N of Cases           ¦      6
Median               ¦ 0.005
Arithmetic Mean      ¦ 0.007
Geometric Mean       ¦ 0.005
```

```
Standard Deviation ¦ 0.006
```

Results for CITY$ = TxDOT QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.001
Arithmetic Mean     ¦ 0.003
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.005
```

▼Descriptive Statistics

Results for QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    67
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.004
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.004
```

Results for QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    74
Median              ¦ 0.003
Arithmetic Mean     ¦ 0.003
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.003
```

Results for QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    70
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.007
Geometric Mean      ¦ 0.004
```

```
Standard Deviation ¦ 0.010
```

Results for QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Arsenic')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    74
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.004
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.006
```

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦  9.420
Arithmetic Mean     ¦ 13.617
Geometric Mean      ¦  9.370
Standard Deviation  ¦ 12.093
```

Results for CITY$ = Arlington QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 8.520
Arithmetic Mean     ¦ 6.926
Geometric Mean      ¦ 5.613
Standard Deviation  ¦ 3.610
```

Results for CITY$ = Arlington QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦ 17.900
Arithmetic Mean     ¦ 17.111
Geometric Mean      ¦ 13.440
```

```
Standard Deviation ¦  9.947
```

Results for CITY$ = Arlington QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                   ¦  VALUE
-------------------+-------
N of Cases         ¦      9
Median             ¦ 11.600
Arithmetic Mean    ¦ 11.517
Geometric Mean     ¦ 10.019
Standard Deviation ¦  6.415
```

Results for CITY$ = Dallas QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                   ¦  VALUE
-------------------+-------
N of Cases         ¦     10
Median             ¦ 10.750
Arithmetic Mean    ¦ 25.787
Geometric Mean     ¦ 12.224
Standard Deviation ¦ 32.151
```

Results for CITY$ = Dallas QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    14
Median             ¦ 5.695
Arithmetic Mean    ¦ 8.072
Geometric Mean     ¦ 6.308
Standard Deviation ¦ 7.291
```

Results for CITY$ = Dallas QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                   ¦  VALUE
-------------------+-------
N of Cases         ¦     11
Median             ¦ 10.700
Arithmetic Mean    ¦ 12.429
Geometric Mean     ¦  9.567
Standard Deviation ¦  8.585
```

Results for CITY$ = Dallas QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                   ¦  VALUE
-------------------+-------
N of Cases         ¦     11
Median             ¦  6.750
Arithmetic Mean    ¦ 12.996
Geometric Mean     ¦  6.258
Standard Deviation ¦ 21.133
```

Results for CITY$ = Fort Worth QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     3
Median             ¦ 1.000
Arithmetic Mean    ¦ 2.333
Geometric Mean     ¦ 1.710
Standard Deviation ¦ 2.309
```

Results for CITY$ = Fort Worth QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     2
Median             ¦ 1.500
Arithmetic Mean    ¦ 1.500
Geometric Mean     ¦ 1.414
Standard Deviation ¦ 0.707
```

Results for CITY$ = Fort Worth QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 3.200
Arithmetic Mean    ¦ 3.492
Geometric Mean     ¦ 1.541
Standard Deviation ¦ 3.405
```

Results for CITY$ = Garland QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')
```

	VALUE
N of Cases	9
Median	2.680
Arithmetic Mean	3.421
Geometric Mean	2.659
Standard Deviation	3.012

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	5.890
Arithmetic Mean	8.871
Geometric Mean	6.710
Standard Deviation	7.202

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	5.940
Arithmetic Mean	6.256
Geometric Mean	3.041
Standard Deviation	5.655

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	5.000
Arithmetic Mean	6.459
Geometric Mean	5.350
Standard Deviation	3.944

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE

	VALUE
N of Cases	9
Median	8.560
Arithmetic Mean	10.918
Geometric Mean	6.722
Standard Deviation	10.410

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	7.820
Arithmetic Mean	13.023
Geometric Mean	7.777
Standard Deviation	13.232

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	19.600
Arithmetic Mean	55.559
Geometric Mean	16.642
Standard Deviation	93.780

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	8.030
Arithmetic Mean	12.162
Geometric Mean	8.478
Standard Deviation	10.309

Results for CITY$ = Mesquite QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	4.910
Arithmetic Mean	5.204

Geometric Mean	4.714
Standard Deviation	2.199

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	5.040
Arithmetic Mean	7.863
Geometric Mean	5.115
Standard Deviation	9.390

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	11.200
Arithmetic Mean	10.367
Geometric Mean	8.563
Standard Deviation	5.192

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	6.800
Arithmetic Mean	7.653
Geometric Mean	5.410
Standard Deviation	5.263

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	6
Median	5.065
Arithmetic Mean	5.620
Geometric Mean	4.367
Standard Deviation	3.966

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	6
Median	5.640
Arithmetic Mean	6.277
Geometric Mean	4.499
Standard Deviation	5.379

Results for CITY$ = NTTA QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	6
Median	7.240
Arithmetic Mean	8.547
Geometric Mean	7.016
Standard Deviation	5.521

Results for CITY$ = NTTA QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	6
Median	12.150
Arithmetic Mean	12.338
Geometric Mean	9.904
Standard Deviation	7.697

Results for CITY$ = Plano QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	6.820
Arithmetic Mean	8.203
Geometric Mean	5.737
Standard Deviation	7.531

Results for CITY$ = Plano QUARTER = 2.000

Data for the following results were selected according to

```
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 5.580
Arithmetic Mean     ¦ 6.638
Geometric Mean      ¦ 4.337
Standard Deviation  ¦ 7.319
```

Results for CITY$ = Plano QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 4.300
Arithmetic Mean     ¦ 6.436
Geometric Mean      ¦ 3.898
Standard Deviation  ¦ 8.516
```

Results for CITY$ = Plano QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 6.800
Arithmetic Mean     ¦ 7.878
Geometric Mean      ¦ 7.285
Standard Deviation  ¦ 3.282
```

Results for CITY$ = TxDOT QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 5.380
Arithmetic Mean     ¦ 4.700
Geometric Mean      ¦ 4.267
Standard Deviation  ¦ 1.797
```

Results for CITY$ = TxDOT QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 7.870
Arithmetic Mean     ¦ 9.623
Geometric Mean      ¦ 7.167
Standard Deviation  ¦ 7.253
```

Results for CITY$ = TxDOT QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦      6
Median              ¦ 15.500
Arithmetic Mean     ¦ 13.900
Geometric Mean      ¦ 11.689
Standard Deviation  ¦  6.073
```

Results for CITY$ = TxDOT QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦      6
Median              ¦  8.410
Arithmetic Mean     ¦ 10.463
Geometric Mean      ¦  9.084
Standard Deviation  ¦  6.105
```

▼Descriptive Statistics

Results for QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦     67
Median              ¦  5.410
Arithmetic Mean     ¦ 10.329
Geometric Mean      ¦  5.850
Standard Deviation  ¦ 15.334
```

Results for QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    74
Median              ¦ 5.895
Arithmetic Mean     ¦ 8.180
Geometric Mean      ¦ 5.582
Standard Deviation  ¦ 7.897
```

Results for QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦     70
Median              ¦  9.780
Arithmetic Mean     ¦ 16.228
Geometric Mean      ¦  7.630
Standard Deviation  ¦ 36.166
```

Results for QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    74
Median              ¦ 6.775
Arithmetic Mean     ¦ 9.618
Geometric Mean      ¦ 6.446
Standard Deviation  ¦ 9.973
```

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦ 24.000
Arithmetic Mean     ¦ 32.522
Geometric Mean      ¦ 27.551
Standard Deviation  ¦ 19.793
```

Results for CITY$ = Arlington QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦ 45.000
Arithmetic Mean     ¦ 74.522
Geometric Mean      ¦ 31.222
Standard Deviation  ¦ 94.621
```

Results for CITY$ = Arlington QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦ 29.700
Arithmetic Mean     ¦ 45.922
Geometric Mean      ¦ 24.235
Standard Deviation  ¦ 36.893
```

Results for CITY$ = Arlington QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦ 67.000
Arithmetic Mean     ¦ 56.678
Geometric Mean      ¦ 51.137
Standard Deviation  ¦ 23.550
```

Results for CITY$ = Dallas QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     10
Median              ¦ 54.000
Arithmetic Mean     ¦ 89.560
Geometric Mean      ¦ 32.735
Standard Deviation  ¦ 98.181
```

Results for CITY$ = Dallas QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     14
Median              ¦ 28.450
```

```
Arithmetic Mean     ¦ 35.186
Geometric Mean      ¦ 24.548
Standard Deviation  ¦ 28.265
```

Results for CITY$ = Dallas QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     11
Median              ¦ 44.900
Arithmetic Mean     ¦ 63.518
Geometric Mean      ¦ 39.027
Standard Deviation  ¦ 69.374
```

Results for CITY$ = Dallas QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     11
Median              ¦ 37.200
Arithmetic Mean     ¦ 55.918
Geometric Mean      ¦ 27.810
Standard Deviation  ¦ 84.067
```

Results for CITY$ = Fort Worth QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦       3
Median              ¦ 209.000
Arithmetic Mean     ¦ 161.667
Geometric Mean      ¦ 141.023
Standard Deviation  ¦  85.471
```

Results for CITY$ = Fort Worth QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      2
Median              ¦ 21.500
Arithmetic Mean     ¦ 21.500
Geometric Mean      ¦ 18.762
Standard Deviation  ¦ 14.849
```

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	6
Median	17.150
Arithmetic Mean	24.000
Geometric Mean	16.165
Standard Deviation	18.899

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	17.600
Arithmetic Mean	18.799
Geometric Mean	16.258
Standard Deviation	11.433

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	31.000
Arithmetic Mean	32.711
Geometric Mean	17.527
Standard Deviation	29.145

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	37.800
Arithmetic Mean	58.400
Geometric Mean	33.057
Standard Deviation	80.799

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	31.000
Arithmetic Mean	31.341
Geometric Mean	22.136
Standard Deviation	20.077

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	22.900
Arithmetic Mean	29.133
Geometric Mean	26.412
Standard Deviation	15.029

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	64.100
Arithmetic Mean	69.167
Geometric Mean	52.319
Standard Deviation	40.761

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')

	VALUE
N of Cases	9
Median	41.200
Arithmetic Mean	96.578
Geometric Mean	63.828
Standard Deviation	121.131

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦       9
Median              ¦ 37.000
Arithmetic Mean     ¦ 50.089
Geometric Mean      ¦ 42.557
Standard Deviation  ¦ 30.862
```

Results for CITY$ = Mesquite QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦       9
Median              ¦ 17.400
Arithmetic Mean     ¦ 16.422
Geometric Mean      ¦  8.773
Standard Deviation  ¦ 10.991
```

Results for CITY$ = Mesquite QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦       9
Median              ¦ 28.200
Arithmetic Mean     ¦ 42.167
Geometric Mean      ¦ 26.015
Standard Deviation  ¦ 39.713
```

Results for CITY$ = Mesquite QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦       9
Median              ¦ 77.000
Arithmetic Mean     ¦ 63.889
Geometric Mean      ¦ 54.927
Standard Deviation  ¦ 30.570
```

Results for CITY$ = Mesquite QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')
```

```
                    ¦  VALUE
--------------------+-------
```

```
N of Cases           ¦      9
Median               ¦ 27.000
Arithmetic Mean      ¦ 38.278
Geometric Mean       ¦ 33.335
Standard Deviation   ¦ 22.428
```

Results for CITY$ = NTTA QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                     ¦  VALUE
---------------------+-------
N of Cases           ¦      6
Median               ¦ 18.800
Arithmetic Mean      ¦ 21.867
Geometric Mean       ¦ 20.071
Standard Deviation   ¦ 10.414
```

Results for CITY$ = NTTA QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                     ¦  VALUE
---------------------+-------
N of Cases           ¦      6
Median               ¦ 23.500
Arithmetic Mean      ¦ 21.617
Geometric Mean       ¦ 12.243
Standard Deviation   ¦ 15.476
```

Results for CITY$ = NTTA QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                     ¦  VALUE
---------------------+-------
N of Cases           ¦      6
Median               ¦ 50.000
Arithmetic Mean      ¦ 44.133
Geometric Mean       ¦ 33.219
Standard Deviation   ¦ 25.924
```

Results for CITY$ = NTTA QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                     ¦  VALUE
---------------------+-------
N of Cases           ¦      6
Median               ¦ 61.650
Arithmetic Mean      ¦ 49.467
Geometric Mean       ¦ 27.759
```

```
Standard Deviation ¦ 31.138
```

Results for CITY$ = Plano QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦ 30.000
Arithmetic Mean     ¦ 28.362
Geometric Mean      ¦ 21.337
Standard Deviation  ¦ 20.368
```

Results for CITY$ = Plano QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦  7.000
Arithmetic Mean     ¦ 16.989
Geometric Mean      ¦  6.499
Standard Deviation  ¦ 21.215
```

Results for CITY$ = Plano QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦ 29.000
Arithmetic Mean     ¦ 39.633
Geometric Mean      ¦ 32.446
Standard Deviation  ¦ 30.346
```

Results for CITY$ = Plano QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦ 31.000
Arithmetic Mean     ¦ 40.911
Geometric Mean      ¦ 35.173
Standard Deviation  ¦ 24.119
```

Results for CITY$ = TxDOT QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      6
Median              ¦ 19.100
Arithmetic Mean     ¦ 19.700
Geometric Mean      ¦ 18.828
Standard Deviation  ¦  6.563
```

Results for CITY$ = TxDOT QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦       6
Median              ¦  46.500
Arithmetic Mean     ¦ 180.017
Geometric Mean      ¦  30.756
Standard Deviation  ¦ 353.737
```

Results for CITY$ = TxDOT QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      6
Median              ¦ 52.650
Arithmetic Mean     ¦ 51.867
Geometric Mean      ¦ 39.960
Standard Deviation  ¦ 33.288
```

Results for CITY$ = TxDOT QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      6
Median              ¦ 73.600
Arithmetic Mean     ¦ 64.417
Geometric Mean      ¦ 58.995
Standard Deviation  ¦ 23.845
```

▼Descriptive Statistics

Results for QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')
```

	VALUE
N of Cases	67
Median	22.300
Arithmetic Mean	33.913
Geometric Mean	20.384
Standard Deviation	45.418

Results for QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')
```

	VALUE
N of Cases	74
Median	36.500
Arithmetic Mean	58.208
Geometric Mean	23.550
Standard Deviation	112.463

Results for QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')
```

	VALUE
N of Cases	70
Median	40.650
Arithmetic Mean	57.964
Geometric Mean	37.803
Standard Deviation	63.134

Results for QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'CHEMICAL OXYGEN DEMAND')
```

	VALUE
N of Cases	74
Median	37.500
Arithmetic Mean	45.920
Geometric Mean	32.816
Standard Deviation	39.532

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

	VALUE
N of Cases	9
Median	0.005
Arithmetic Mean	0.007
Geometric Mean	0.005
Standard Deviation	0.008

Results for CITY$ = Arlington QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

	VALUE
N of Cases	9
Median	0.003
Arithmetic Mean	0.006
Geometric Mean	0.004
Standard Deviation	0.006

Results for CITY$ = Arlington QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

	VALUE
N of Cases	9
Median	0.005
Arithmetic Mean	0.007
Geometric Mean	0.005
Standard Deviation	0.005

Results for CITY$ = Arlington QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

	VALUE
N of Cases	9
Median	0.002
Arithmetic Mean	0.003
Geometric Mean	0.003
Standard Deviation	0.002

Results for CITY$ = Dallas QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    10
Median              ¦ 0.003
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.005
```

Results for CITY$ = Dallas QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    14
Median              ¦ 0.003
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.008
```

Results for CITY$ = Dallas QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 0.008
Arithmetic Mean     ¦ 0.012
Geometric Mean      ¦ 0.006
Standard Deviation  ¦ 0.016
```

Results for CITY$ = Dallas QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.007
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.007
```

Results for CITY$ = Fort Worth QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
```

```
--------------------+------
N of Cases          ¦     3
Median              ¦ 0.003
Arithmetic Mean     ¦ 0.003
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.000
```

Results for CITY$ = Fort Worth QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     2
Median              ¦ 0.008
Arithmetic Mean     ¦ 0.007
Geometric Mean      ¦ 0.006
Standard Deviation  ¦ 0.007
```

Results for CITY$ = Fort Worth QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.001
Arithmetic Mean     ¦ 0.001
Geometric Mean      ¦ 0.001
Standard Deviation  ¦ 0.000
```

Results for CITY$ = Garland QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.003
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.002
```

Results for CITY$ = Garland QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.006
```

```
Geometric Mean     ¦ 0.004
Standard Deviation ¦ 0.004
```

Results for CITY$ = Garland QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.004
Arithmetic Mean    ¦ 0.005
Geometric Mean     ¦ 0.004
Standard Deviation ¦ 0.004
```

Results for CITY$ = Garland QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.002
Arithmetic Mean    ¦ 0.003
Geometric Mean     ¦ 0.003
Standard Deviation ¦ 0.002
```

Results for CITY$ = Irving QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.005
Arithmetic Mean    ¦ 0.004
Geometric Mean     ¦ 0.004
Standard Deviation ¦ 0.003
```

Results for CITY$ = Irving QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.007
Arithmetic Mean    ¦ 0.011
Geometric Mean     ¦ 0.005
Standard Deviation ¦ 0.013
```

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

	VALUE
N of Cases	9
Median	0.003
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.003

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

	VALUE
N of Cases	9
Median	0.003
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.003

Results for CITY$ = Mesquite QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

	VALUE
N of Cases	9
Median	0.004
Arithmetic Mean	0.005
Geometric Mean	0.004
Standard Deviation	0.003

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

	VALUE
N of Cases	9
Median	0.003
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.004

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to

```
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.007
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.006
```

Results for CITY$ = Mesquite QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.006
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.004
```

Results for CITY$ = NTTA QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.011
Arithmetic Mean     ¦ 0.010
Geometric Mean      ¦ 0.007
Standard Deviation  ¦ 0.007
```

Results for CITY$ = NTTA QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.005
```

Results for CITY$ = NTTA QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.003
```

Results for CITY$ = NTTA QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.018
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.032
```

Results for CITY$ = Plano QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.003
Arithmetic Mean     ¦ 0.003
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.001
```

Results for CITY$ = Plano QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.003
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.009
```

Results for CITY$ = Plano QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.004
```

```
Arithmetic Mean    ¦ 0.006
Geometric Mean     ¦ 0.004
Standard Deviation ¦ 0.006
```

Results for CITY$ = Plano QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.003
Arithmetic Mean    ¦ 0.004
Geometric Mean     ¦ 0.003
Standard Deviation ¦ 0.003
```

Results for CITY$ = TxDOT QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 0.003
Arithmetic Mean    ¦ 0.003
Geometric Mean     ¦ 0.003
Standard Deviation ¦ 0.001
```

Results for CITY$ = TxDOT QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 0.005
Arithmetic Mean    ¦ 0.007
Geometric Mean     ¦ 0.005
Standard Deviation ¦ 0.007
```

Results for CITY$ = TxDOT QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 0.004
Arithmetic Mean    ¦ 0.003
Geometric Mean     ¦ 0.003
Standard Deviation ¦ 0.002
```

Results for CITY$ = TxDOT QUARTER = 4.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.006
```

▼Descriptive Statistics

Results for QUARTER = 1.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    67
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.005
```

Results for QUARTER = 2.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    74
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.007
```

Results for QUARTER = 3.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    70
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.007
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.008
```

Results for QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Chromium')

	VALUE
N of Cases	74
Median	0.003
Arithmetic Mean	0.006
Geometric Mean	0.003
Standard Deviation	0.010

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.018
Arithmetic Mean	0.030
Geometric Mean	0.019
Standard Deviation	0.036

Results for CITY$ = Arlington QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.035
Arithmetic Mean	0.038
Geometric Mean	0.035
Standard Deviation	0.016

Results for CITY$ = Arlington QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.033
Arithmetic Mean	0.036
Geometric Mean	0.029
Standard Deviation	0.022

Results for CITY$ = Arlington QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.024
Arithmetic Mean	0.022
Geometric Mean	0.015
Standard Deviation	0.017

Results for CITY$ = Dallas QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	10
Median	0.005
Arithmetic Mean	0.012
Geometric Mean	0.006
Standard Deviation	0.014

Results for CITY$ = Dallas QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	14
Median	0.006
Arithmetic Mean	0.011
Geometric Mean	0.007
Standard Deviation	0.013

Results for CITY$ = Dallas QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	11
Median	0.012
Arithmetic Mean	0.016
Geometric Mean	0.010
Standard Deviation	0.016

Results for CITY$ = Dallas QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	11
Median	0.006
Arithmetic Mean	0.017
Geometric Mean	0.010
Standard Deviation	0.022

Results for CITY$ = Fort Worth QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	3
Median	0.003
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.001

Results for CITY$ = Fort Worth QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	2
Median	0.004
Arithmetic Mean	0.004
Geometric Mean	0.004
Standard Deviation	0.002

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	6
Median	0.009
Arithmetic Mean	0.008
Geometric Mean	0.007
Standard Deviation	0.004

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.016
Arithmetic Mean	0.015
Geometric Mean	0.014
Standard Deviation	0.007

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.026
Arithmetic Mean	0.026
Geometric Mean	0.019
Standard Deviation	0.016

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.033
Arithmetic Mean	0.031
Geometric Mean	0.029
Standard Deviation	0.011

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.027
Arithmetic Mean	0.023
Geometric Mean	0.018
Standard Deviation	0.015

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE

```
N of Cases           ¦      9
Median               ¦ 0.026
Arithmetic Mean      ¦ 0.031
Geometric Mean       ¦ 0.019
Standard Deviation   ¦ 0.034
```

Results for CITY$ = Irving QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                     ¦ VALUE
---------------------+------
N of Cases           ¦      9
Median               ¦ 0.038
Arithmetic Mean      ¦ 0.100
Geometric Mean       ¦ 0.044
Standard Deviation   ¦ 0.195
```

Results for CITY$ = Irving QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                     ¦ VALUE
---------------------+------
N of Cases           ¦      9
Median               ¦ 0.027
Arithmetic Mean      ¦ 0.025
Geometric Mean       ¦ 0.015
Standard Deviation   ¦ 0.020
```

Results for CITY$ = Irving QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                     ¦ VALUE
---------------------+------
N of Cases           ¦      9
Median               ¦ 0.026
Arithmetic Mean      ¦ 0.028
Geometric Mean       ¦ 0.023
Standard Deviation   ¦ 0.015
```

Results for CITY$ = Mesquite QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                     ¦ VALUE
---------------------+------
N of Cases           ¦      9
Median               ¦ 0.024
Arithmetic Mean      ¦ 0.022
Geometric Mean       ¦ 0.017
```

Standard Deviation ¦ 0.011

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.025
Arithmetic Mean	0.032
Geometric Mean	0.026
Standard Deviation	0.018

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.021
Arithmetic Mean	0.026
Geometric Mean	0.023
Standard Deviation	0.013

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.021
Arithmetic Mean	0.020
Geometric Mean	0.017
Standard Deviation	0.010

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	6
Median	0.030
Arithmetic Mean	0.034
Geometric Mean	0.031
Standard Deviation	0.018

Results for CITY$ = NTTA QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 0.028
Arithmetic Mean    ¦ 0.025
Geometric Mean     ¦ 0.021
Standard Deviation ¦ 0.011
```

Results for CITY$ = NTTA QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 0.047
Arithmetic Mean    ¦ 0.050
Geometric Mean     ¦ 0.043
Standard Deviation ¦ 0.029
```

Results for CITY$ = NTTA QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 0.040
Arithmetic Mean    ¦ 0.040
Geometric Mean     ¦ 0.029
Standard Deviation ¦ 0.027
```

Results for CITY$ = Plano QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.022
Arithmetic Mean    ¦ 0.023
Geometric Mean     ¦ 0.020
Standard Deviation ¦ 0.011
```

Results for CITY$ = Plano QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')
```

	VALUE
N of Cases	9
Median	0.031
Arithmetic Mean	0.041
Geometric Mean	0.028
Standard Deviation	0.040

Results for CITY$ = Plano QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.027
Arithmetic Mean	0.027
Geometric Mean	0.021
Standard Deviation	0.018

Results for CITY$ = Plano QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	9
Median	0.019
Arithmetic Mean	0.022
Geometric Mean	0.016
Standard Deviation	0.016

Results for CITY$ = TxDOT QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE
N of Cases	6
Median	0.014
Arithmetic Mean	0.019
Geometric Mean	0.012
Standard Deviation	0.020

Results for CITY$ = TxDOT QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')

	VALUE

```
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.032
Arithmetic Mean     ¦ 0.036
Geometric Mean      ¦ 0.034
Standard Deviation  ¦ 0.011
```

Results for CITY$ = TxDOT QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.057
Arithmetic Mean     ¦ 0.049
Geometric Mean      ¦ 0.038
Standard Deviation  ¦ 0.023
```

Results for CITY$ = TxDOT QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.032
Arithmetic Mean     ¦ 0.032
Geometric Mean      ¦ 0.025
Standard Deviation  ¦ 0.018
```

▼Descriptive Statistics

Results for QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    67
Median              ¦ 0.020
Arithmetic Mean     ¦ 0.023
Geometric Mean      ¦ 0.015
Standard Deviation  ¦ 0.022
```

Results for QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')


                    ¦ VALUE
```

```
--------------------+------
N of Cases          ¦    74
Median              ¦ 0.025
Arithmetic Mean     ¦ 0.036
Geometric Mean      ¦ 0.020
Standard Deviation  ¦ 0.072
```

Results for QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    70
Median              ¦ 0.027
Arithmetic Mean     ¦ 0.030
Geometric Mean      ¦ 0.021
Standard Deviation  ¦ 0.021
```

Results for QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Copper')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    74
Median              ¦ 0.021
Arithmetic Mean     ¦ 0.023
Geometric Mean      ¦ 0.016
Standard Deviation  ¦ 0.018
```

*** WARNING *** : No cases selected.

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')
```

```
                    ¦      VALUE
--------------------+-----------
N of Cases          ¦          9
Median              ¦     90.000
Arithmetic Mean     ¦  6,776.167
Geometric Mean      ¦     91.373
Standard Deviation  ¦ 19,959.280
```

Results for CITY$ = Arlington QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')
```

	VALUE
N of Cases	9
Median	700.000
Arithmetic Mean	10,331.889
Geometric Mean	619.657
Standard Deviation	20,177.657

Results for CITY$ = Arlington QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	6,000.000
Arithmetic Mean	6,358.889
Geometric Mean	4,312.290
Standard Deviation	5,887.547

Results for CITY$ = Arlington QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	20,000.000
Arithmetic Mean	106,321.111
Geometric Mean	11,417.447
Standard Deviation	176,653.862

Results for CITY$ = Dallas QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	9,000.000
Arithmetic Mean	41,572.000
Geometric Mean	7,551.151
Standard Deviation	77,772.081

Results for CITY$ = Dallas QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE

N of Cases	14
Median	697.000
Arithmetic Mean	29,260.714
Geometric Mean	1,677.766
Standard Deviation	67,139.117

Results for CITY$ = Dallas QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	8
Median	9,121.000
Arithmetic Mean	40,401.250
Geometric Mean	4,707.073
Standard Deviation	82,485.307

Results for CITY$ = Dallas QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	11
Median	689.000
Arithmetic Mean	10,203.045
Geometric Mean	630.748
Standard Deviation	21,409.266

Results for CITY$ = Fort Worth QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	3
Median	1,986.000
Arithmetic Mean	6,011.333
Geometric Mean	2,517.038
Standard Deviation	8,276.928

Results for CITY$ = Fort Worth QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	2
Median	253.500
Arithmetic Mean	253.500
Geometric Mean	145.623

Standard Deviation	293.449

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	6
Median	336.000
Arithmetic Mean	2,467.333
Geometric Mean	392.699
Standard Deviation	4,744.720

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	50.000
Arithmetic Mean	77.056
Geometric Mean	21.752
Standard Deviation	96.256

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	909.000
Arithmetic Mean	1,359.333
Geometric Mean	696.888
Standard Deviation	1,590.138

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	2,700.000
Arithmetic Mean	25,031.111
Geometric Mean	4,975.217
Standard Deviation	46,131.852

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	1,000.000
Arithmetic Mean	95,075.611
Geometric Mean	1,316.260
Standard Deviation	228,978.067

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	1,460.000
Arithmetic Mean	1,712.222
Geometric Mean	1,038.206
Standard Deviation	1,477.183

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	1,000.000
Arithmetic Mean	6,096.667
Geometric Mean	776.199
Standard Deviation	12,767.525

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	8,600.000
Arithmetic Mean	33,811.111
Geometric Mean	9,025.450
Standard Deviation	77,514.006

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

```
                    ¦      VALUE
--------------------+-----------
N of Cases          ¦          9
Median              ¦  1,330.000
Arithmetic Mean     ¦ 35,074.556
Geometric Mean      ¦    456.657
Standard Deviation  ¦ 99,383.215
```

Results for CITY$ = Mesquite QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')


                    ¦     VALUE
--------------------+----------
N of Cases          ¦         9
Median              ¦   160.000
Arithmetic Mean     ¦   925.056
Geometric Mean      ¦    93.317
Standard Deviation  ¦ 1,639.927
```

Results for CITY$ = Mesquite QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦       9
Median              ¦ 545.000
Arithmetic Mean     ¦ 897.278
Geometric Mean      ¦ 261.002
Standard Deviation  ¦ 860.811
```

Results for CITY$ = Mesquite QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')


                    ¦       VALUE
--------------------+------------
N of Cases          ¦           9
Median              ¦   3,000.000
Arithmetic Mean     ¦ 258,111.278
Geometric Mean      ¦     391.758
Standard Deviation  ¦ 765,713.565
```

Results for CITY$ = Mesquite QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')


                    ¦       VALUE
```

	VALUE
N of Cases	9
Median	900.000
Arithmetic Mean	224,817.889
Geometric Mean	465.801
Standard Deviation	665,711.471

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	6
Median	870.000
Arithmetic Mean	34,225.000
Geometric Mean	378.750
Standard Deviation	81,225.065

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	6
Median	265.000
Arithmetic Mean	5,310.167
Geometric Mean	501.091
Standard Deviation	10,870.862

Results for CITY$ = NTTA QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	6
Median	13,500.000
Arithmetic Mean	36,133.333
Geometric Mean	11,913.326
Standard Deviation	49,889.946

Results for CITY$ = NTTA QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	6
Median	7,265.000
Arithmetic Mean	21,303.333

Geometric Mean	8,225.627
Standard Deviation	30,628.950

Results for CITY$ = Plano QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	60.000
Arithmetic Mean	139.500
Geometric Mean	36.769
Standard Deviation	173.361

Results for CITY$ = Plano QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	1,600.000
Arithmetic Mean	3,222.222
Geometric Mean	1,641.823
Standard Deviation	4,605.903

Results for CITY$ = Plano QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	8,000.000
Arithmetic Mean	48,955.556
Geometric Mean	11,303.421
Standard Deviation	116,953.432

Results for CITY$ = Plano QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	9
Median	1,700.000
Arithmetic Mean	6,671.222
Geometric Mean	440.264
Standard Deviation	10,213.733

Results for CITY$ = TxDOT QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	6
Median	52.500
Arithmetic Mean	1,517.667
Geometric Mean	36.840
Standard Deviation	2,331.959

Results for CITY$ = TxDOT QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	6
Median	1,100.000
Arithmetic Mean	9,659.167
Geometric Mean	962.687
Standard Deviation	18,314.250

Results for CITY$ = TxDOT QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	6
Median	7,400.000
Arithmetic Mean	8,333.333
Geometric Mean	6,302.438
Standard Deviation	6,245.211

Results for CITY$ = TxDOT QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	6
Median	7,650.000
Arithmetic Mean	6,883.500
Geometric Mean	367.235
Standard Deviation	5,882.084

▼Descriptive Statistics

Results for QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	66
Median	195.000
Arithmetic Mean	10,231.424
Geometric Mean	177.336
Standard Deviation	39,372.685

Results for QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	74
Median	835.000
Arithmetic Mean	9,657.655
Geometric Mean	852.321
Standard Deviation	31,643.609

Results for QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	67
Median	6,000.000
Arithmetic Mean	58,819.828
Geometric Mean	4,143.080
Standard Deviation	284,779.498

Results for QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'E coli')

	VALUE
N of Cases	74
Median	1,740.000
Arithmetic Mean	60,916.243
Geometric Mean	986.991
Standard Deviation	253,277.903

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	5
Median	7.430
Arithmetic Mean	7.670
Geometric Mean	7.641
Standard Deviation	0.756

Results for CITY$ = Arlington QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	6
Median	7.860
Arithmetic Mean	7.928
Geometric Mean	7.926
Standard Deviation	0.226

Results for CITY$ = Arlington QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	7.960
Arithmetic Mean	7.914
Geometric Mean	7.896
Standard Deviation	0.560

Results for CITY$ = Arlington QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	7.800
Arithmetic Mean	7.682
Geometric Mean	7.679
Standard Deviation	0.249

Results for CITY$ = Dallas QUARTER = 1.000

Data for the following results were selected according to

```
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 7.545
Arithmetic Mean    ¦ 7.568
Geometric Mean     ¦ 7.568
Standard Deviation ¦ 0.073
```

Results for CITY$ = Dallas QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 7.500
Arithmetic Mean    ¦ 7.653
Geometric Mean     ¦ 7.647
Standard Deviation ¦ 0.330
```

Results for CITY$ = Dallas QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    11
Median             ¦ 7.800
Arithmetic Mean    ¦ 7.861
Geometric Mean     ¦ 7.858
Standard Deviation ¦ 0.207
```

Results for CITY$ = Dallas QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    11
Median             ¦ 7.600
Arithmetic Mean    ¦ 7.592
Geometric Mean     ¦ 7.589
Standard Deviation ¦ 0.208
```

Results for CITY$ = Fort Worth QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')
```

	VALUE
N of Cases	3
Median	7.800
Arithmetic Mean	7.893
Geometric Mean	7.892
Standard Deviation	0.179

Results for CITY$ = Fort Worth QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	2
Median	7.900
Arithmetic Mean	7.900
Geometric Mean	7.897
Standard Deviation	0.283

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	3
Median	7.740
Arithmetic Mean	7.493
Geometric Mean	7.484
Standard Deviation	0.445

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	7.900
Arithmetic Mean	8.027
Geometric Mean	8.005
Standard Deviation	0.632

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	7.990

	VALUE
Arithmetic Mean	8.268
Geometric Mean	8.247
Standard Deviation	0.625

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	9.000
Arithmetic Mean	8.427
Geometric Mean	8.382
Standard Deviation	0.907

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	7.940
Arithmetic Mean	8.234
Geometric Mean	8.200
Standard Deviation	0.827

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	5
Median	7.900
Arithmetic Mean	7.850
Geometric Mean	7.846
Standard Deviation	0.267

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	6
Median	7.990
Arithmetic Mean	7.987
Geometric Mean	7.986
Standard Deviation	0.123

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	7.830
Arithmetic Mean	7.661
Geometric Mean	7.643
Standard Deviation	0.548

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	10
Median	7.650
Arithmetic Mean	7.705
Geometric Mean	7.700
Standard Deviation	0.305

Results for CITY$ = Mesquite QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	7.910
Arithmetic Mean	8.434
Geometric Mean	8.370
Standard Deviation	1.119

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	7.960
Arithmetic Mean	7.887
Geometric Mean	7.882
Standard Deviation	0.278

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	8.480
Arithmetic Mean	8.496
Geometric Mean	8.478
Standard Deviation	0.588

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	7.900
Arithmetic Mean	8.134
Geometric Mean	8.092
Standard Deviation	0.894

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	6
Median	8.645
Arithmetic Mean	8.780
Geometric Mean	8.741
Standard Deviation	0.921

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	5
Median	8.100
Arithmetic Mean	8.020
Geometric Mean	7.997
Standard Deviation	0.667

Results for CITY$ = NTTA QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

```
                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 7.890
Arithmetic Mean    ¦ 8.048
Geometric Mean     ¦ 7.994
Standard Deviation ¦ 1.039
```

Results for CITY$ = NTTA QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 8.185
Arithmetic Mean    ¦ 8.100
Geometric Mean     ¦ 8.030
Standard Deviation ¦ 1.153
```

Results for CITY$ = Plano QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     8
Median             ¦ 7.745
Arithmetic Mean    ¦ 7.426
Geometric Mean     ¦ 7.374
Standard Deviation ¦ 0.934
```

Results for CITY$ = Plano QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 8.040
Arithmetic Mean    ¦ 7.779
Geometric Mean     ¦ 7.755
Standard Deviation ¦ 0.648
```

Results for CITY$ = Plano QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                   ¦ VALUE
-------------------+------
```

	VALUE
N of Cases	9
Median	8.090
Arithmetic Mean	8.036
Geometric Mean	7.997
Standard Deviation	0.833

Results for CITY$ = Plano QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	9
Median	8.270
Arithmetic Mean	8.382
Geometric Mean	8.360
Standard Deviation	0.655

Results for CITY$ = TxDOT QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	6
Median	8.095
Arithmetic Mean	7.787
Geometric Mean	7.705
Standard Deviation	1.212

Results for CITY$ = TxDOT QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	6
Median	8.435
Arithmetic Mean	8.325
Geometric Mean	8.313
Standard Deviation	0.488

Results for CITY$ = TxDOT QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')

	VALUE
N of Cases	6
Median	7.800
Arithmetic Mean	7.715
Geometric Mean	7.703

```
Standard Deviation ¦ 0.463
```

Results for CITY$ = TxDOT QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 7.700
Arithmetic Mean     ¦ 7.760
Geometric Mean      ¦ 7.741
Standard Deviation  ¦ 0.606
```

▼Descriptive Statistics

Results for QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    54
Median              ¦ 7.870
Arithmetic Mean     ¦ 7.962
Geometric Mean      ¦ 7.913
Standard Deviation  ¦ 0.906
```

Results for QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    62
Median              ¦ 7.920
Arithmetic Mean     ¦ 7.960
Geometric Mean      ¦ 7.945
Standard Deviation  ¦ 0.483
```

Results for QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    70
Median              ¦ 7.970
Arithmetic Mean     ¦ 8.024
Geometric Mean      ¦ 7.995
```

```
Standard Deviation ¦ 0.686
```

Results for QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Field pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    72
Median              ¦ 7.800
Arithmetic Mean     ¦ 7.918
Geometric Mean      ¦ 7.891
Standard Deviation  ¦ 0.674
```

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 7.840
Arithmetic Mean     ¦ 7.841
Geometric Mean      ¦ 7.833
Standard Deviation  ¦ 0.377
```

Results for CITY$ = Arlington QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 7.100
Arithmetic Mean     ¦ 7.134
Geometric Mean      ¦ 7.131
Standard Deviation  ¦ 0.252
```

Results for CITY$ = Arlington QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 7.470
Arithmetic Mean     ¦ 7.499
Geometric Mean      ¦ 7.497
```

```
Standard Deviation ¦ 0.199
```

Results for CITY$ = Arlington QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 7.510
Arithmetic Mean     ¦ 7.398
Geometric Mean      ¦ 7.392
Standard Deviation  ¦ 0.301
```

Results for CITY$ = Dallas QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     4
Median              ¦ 7.905
Arithmetic Mean     ¦ 7.835
Geometric Mean      ¦ 7.834
Standard Deviation  ¦ 0.157
```

Results for CITY$ = Dallas QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     5
Median              ¦ 7.750
Arithmetic Mean     ¦ 7.612
Geometric Mean      ¦ 7.608
Standard Deviation  ¦ 0.285
```

Results for CITY$ = Dallas QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


*** ERROR *** : No cases were found to process.
```

Results for CITY$ = Dallas QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


*** ERROR *** : No cases were found to process.
```

Results for CITY$ = Fort Worth QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

*** ERROR *** : No cases were found to process.

Results for CITY$ = Fort Worth QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

*** ERROR *** : No cases were found to process.

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	3
Median	7.830
Arithmetic Mean	7.710
Geometric Mean	7.706
Standard Deviation	0.289

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.860
Arithmetic Mean	7.739
Geometric Mean	7.736
Standard Deviation	0.237

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.470
Arithmetic Mean	7.356
Geometric Mean	7.348
Standard Deviation	0.353

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.670
Arithmetic Mean	7.626
Geometric Mean	7.623
Standard Deviation	0.208

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.530
Arithmetic Mean	7.618
Geometric Mean	7.614
Standard Deviation	0.248

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.650
Arithmetic Mean	7.594
Geometric Mean	7.585
Standard Deviation	0.404

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.550
Arithmetic Mean	7.388
Geometric Mean	7.372
Standard Deviation	0.511

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.480
Arithmetic Mean	7.329
Geometric Mean	7.319
Standard Deviation	0.393

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	10
Median	7.515
Arithmetic Mean	7.477
Geometric Mean	7.469
Standard Deviation	0.365

Results for CITY$ = Mesquite QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.850
Arithmetic Mean	7.880
Geometric Mean	7.868
Standard Deviation	0.463

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.230
Arithmetic Mean	7.204
Geometric Mean	7.195
Standard Deviation	0.382

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.420
Arithmetic Mean	7.410
Geometric Mean	7.408
Standard Deviation	0.195

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.530
Arithmetic Mean	7.514
Geometric Mean	7.512
Standard Deviation	0.194

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	6
Median	7.730
Arithmetic Mean	7.805
Geometric Mean	7.792
Standard Deviation	0.497

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	6
Median	7.605
Arithmetic Mean	7.555
Geometric Mean	7.547
Standard Deviation	0.376

Results for CITY$ = NTTA QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE

N of Cases	6
Median	7.540
Arithmetic Mean	7.575
Geometric Mean	7.574
Standard Deviation	0.113

Results for CITY$ = NTTA QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	6
Median	7.745
Arithmetic Mean	7.705
Geometric Mean	7.701
Standard Deviation	0.277

Results for CITY$ = Plano QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.690
Arithmetic Mean	7.796
Geometric Mean	7.792
Standard Deviation	0.267

Results for CITY$ = Plano QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.250
Arithmetic Mean	7.412
Geometric Mean	7.390
Standard Deviation	0.625

Results for CITY$ = Plano QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	9
Median	7.570
Arithmetic Mean	7.542
Geometric Mean	7.539

```
Standard Deviation ¦ 0.232
```

Results for CITY$ = Plano QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 7.560
Arithmetic Mean     ¦ 7.578
Geometric Mean      ¦ 7.576
Standard Deviation  ¦ 0.186
```

Results for CITY$ = TxDOT QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 7.820
Arithmetic Mean     ¦ 7.840
Geometric Mean      ¦ 7.839
Standard Deviation  ¦ 0.134
```

Results for CITY$ = TxDOT QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 7.445
Arithmetic Mean     ¦ 7.338
Geometric Mean      ¦ 7.331
Standard Deviation  ¦ 0.353
```

Results for CITY$ = TxDOT QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 7.405
Arithmetic Mean     ¦ 7.395
Geometric Mean      ¦ 7.394
Standard Deviation  ¦ 0.135
```

Results for CITY$ = TxDOT QUARTER = 4.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	6
Median	7.590
Arithmetic Mean	7.553
Geometric Mean	7.551
Standard Deviation	0.212

▼Descriptive Statistics

Results for QUARTER = 1.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	61
Median	7.810
Arithmetic Mean	7.785
Geometric Mean	7.777
Standard Deviation	0.343

Results for QUARTER = 2.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	62
Median	7.380
Arithmetic Mean	7.353
Geometric Mean	7.341
Standard Deviation	0.421

Results for QUARTER = 3.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')

	VALUE
N of Cases	57
Median	7.530
Arithmetic Mean	7.482
Geometric Mean	7.478
Standard Deviation	0.245

Results for QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lab pH')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    61
Median              ¦ 7.540
Arithmetic Mean     ¦ 7.548
Geometric Mean      ¦ 7.543
Standard Deviation  ¦ 0.268
```

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.008
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.007
```

Results for CITY$ = Arlington QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.014
Arithmetic Mean     ¦ 0.011
Geometric Mean      ¦ 0.009
Standard Deviation  ¦ 0.006
```

Results for CITY$ = Arlington QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.005
```

Results for CITY$ = Arlington QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	9
Median	0.002
Arithmetic Mean	0.005
Geometric Mean	0.003
Standard Deviation	0.005

Results for CITY$ = Dallas QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	10
Median	0.006
Arithmetic Mean	0.014
Geometric Mean	0.008
Standard Deviation	0.015

Results for CITY$ = Dallas QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	14
Median	0.006
Arithmetic Mean	0.011
Geometric Mean	0.007
Standard Deviation	0.015

Results for CITY$ = Dallas QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	11
Median	0.014
Arithmetic Mean	0.024
Geometric Mean	0.012
Standard Deviation	0.033

Results for CITY$ = Dallas QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 0.008
Arithmetic Mean     ¦ 0.018
Geometric Mean      ¦ 0.008
Standard Deviation  ¦ 0.021
```

Results for CITY$ = Fort Worth QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     3
Median              ¦ 0.013
Arithmetic Mean     ¦ 0.013
Geometric Mean      ¦ 0.013
Standard Deviation  ¦ 0.000
```

Results for CITY$ = Fort Worth QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     2
Median              ¦ 0.025
Arithmetic Mean     ¦ 0.025
Geometric Mean      ¦ 0.025
Standard Deviation  ¦ 0.000
```

Results for CITY$ = Fort Worth QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.003
Arithmetic Mean     ¦ 0.004
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.004
```

Results for CITY$ = Garland QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')
```

```
                    ¦ VALUE
```

```
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.007
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.006
```

Results for CITY$ = Garland QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.006
Arithmetic Mean     ¦ 0.016
Geometric Mean      ¦ 0.007
Standard Deviation  ¦ 0.021
```

Results for CITY$ = Garland QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.006
Arithmetic Mean     ¦ 0.007
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.004
```

Results for CITY$ = Garland QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.005
```

Results for CITY$ = Irving QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.013
Arithmetic Mean     ¦ 0.049
```

```
Geometric Mean      ¦ 0.011
Standard Deviation ¦ 0.114
```

Results for CITY$ = Irving QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.011
Arithmetic Mean     ¦ 0.009
Geometric Mean      ¦ 0.007
Standard Deviation ¦ 0.005
```

Results for CITY$ = Irving QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.004
Standard Deviation ¦ 0.004
```

Results for CITY$ = Irving QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.006
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.004
Standard Deviation ¦ 0.005
```

Results for CITY$ = Mesquite QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.013
Arithmetic Mean     ¦ 0.014
Geometric Mean      ¦ 0.011
Standard Deviation ¦ 0.008
```

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	9
Median	0.009
Arithmetic Mean	0.008
Geometric Mean	0.007
Standard Deviation	0.005

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	9
Median	0.009
Arithmetic Mean	0.008
Geometric Mean	0.006
Standard Deviation	0.006

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	9
Median	0.009
Arithmetic Mean	0.006
Geometric Mean	0.005
Standard Deviation	0.004

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	6
Median	0.013
Arithmetic Mean	0.025
Geometric Mean	0.014
Standard Deviation	0.029

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to

SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	6
Median	0.004
Arithmetic Mean	0.010
Geometric Mean	0.005
Standard Deviation	0.011

Results for CITY$ = NTTA QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	6
Median	0.009
Arithmetic Mean	0.045
Geometric Mean	0.013
Standard Deviation	0.090

Results for CITY$ = NTTA QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	6
Median	0.007
Arithmetic Mean	0.012
Geometric Mean	0.006
Standard Deviation	0.014

Results for CITY$ = Plano QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	9
Median	0.005
Arithmetic Mean	0.006
Geometric Mean	0.005
Standard Deviation	0.004

Results for CITY$ = Plano QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

```
                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.005
Arithmetic Mean    ¦ 0.016
Geometric Mean     ¦ 0.007
Standard Deviation ¦ 0.017
```

Results for CITY$ = Plano QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.004
Arithmetic Mean    ¦ 0.005
Geometric Mean     ¦ 0.004
Standard Deviation ¦ 0.004
```

Results for CITY$ = Plano QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.006
Arithmetic Mean    ¦ 0.006
Geometric Mean     ¦ 0.005
Standard Deviation ¦ 0.003
```

Results for CITY$ = TxDOT QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 0.005
Arithmetic Mean    ¦ 0.004
Geometric Mean     ¦ 0.004
Standard Deviation ¦ 0.002
```

Results for CITY$ = TxDOT QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 0.018
```

```
Arithmetic Mean     ¦ 0.020
Geometric Mean      ¦ 0.015
Standard Deviation  ¦ 0.014
```

Results for CITY$ = TxDOT QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.009
Geometric Mean      ¦ 0.006
Standard Deviation  ¦ 0.011
```

Results for CITY$ = TxDOT QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.012
Arithmetic Mean     ¦ 0.011
Geometric Mean      ¦ 0.008
Standard Deviation  ¦ 0.008
```

▼Descriptive Statistics

Results for QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    67
Median              ¦ 0.006
Arithmetic Mean     ¦ 0.016
Geometric Mean      ¦ 0.007
Standard Deviation  ¦ 0.043
```

Results for QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    74
Median              ¦ 0.009
```

	VALUE
Arithmetic Mean	0.012
Geometric Mean	0.008
Standard Deviation	0.013

Results for QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	70
Median	0.005
Arithmetic Mean	0.013
Geometric Mean	0.006
Standard Deviation	0.030

Results for QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Lead')

	VALUE
N of Cases	74
Median	0.006
Arithmetic Mean	0.008
Geometric Mean	0.005
Standard Deviation	0.010

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	3.000
Arithmetic Mean	3.816
Geometric Mean	2.505
Standard Deviation	3.791

Results for CITY$ = Arlington QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	0.025

```
Arithmetic Mean     ¦ 5.481
Geometric Mean      ¦ 0.289
Standard Deviation  ¦ 9.892
```

Results for CITY$ = Arlington QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦  1.900
Arithmetic Mean     ¦ 17.153
Geometric Mean      ¦  2.393
Standard Deviation  ¦ 30.837
```

Results for CITY$ = Arlington QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 1.840
Arithmetic Mean     ¦ 2.685
Geometric Mean      ¦ 1.424
Standard Deviation  ¦ 2.307
```

Results for CITY$ = Dallas QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     10
Median              ¦  2.000
Arithmetic Mean     ¦  5.987
Geometric Mean      ¦  1.942
Standard Deviation  ¦ 12.272
```

Results for CITY$ = Dallas QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 1.320
Arithmetic Mean     ¦ 1.785
Geometric Mean      ¦ 1.482
Standard Deviation  ¦ 1.136
```

Results for CITY$ = Dallas QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	11
Median	1.900
Arithmetic Mean	2.348
Geometric Mean	1.962
Standard Deviation	1.839

Results for CITY$ = Dallas QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	11
Median	1.150
Arithmetic Mean	1.639
Geometric Mean	1.264
Standard Deviation	1.340

Results for CITY$ = Fort Worth QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	3
Median	0.115
Arithmetic Mean	0.413
Geometric Mean	0.237
Standard Deviation	0.517

Results for CITY$ = Fort Worth QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	2
Median	0.485
Arithmetic Mean	0.485
Geometric Mean	0.459
Standard Deviation	0.220

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	6
Median	0.925
Arithmetic Mean	1.122
Geometric Mean	0.973
Standard Deviation	0.642

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	4.000
Arithmetic Mean	3.733
Geometric Mean	2.861
Standard Deviation	2.485

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	4.100
Arithmetic Mean	6.247
Geometric Mean	2.710
Standard Deviation	6.237

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	2.200
Arithmetic Mean	4.872
Geometric Mean	1.983
Standard Deviation	6.185

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	3.200
Arithmetic Mean	4.617
Geometric Mean	3.199
Standard Deviation	4.086

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	6.990
Arithmetic Mean	7.377
Geometric Mean	5.067
Standard Deviation	7.393

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	1.500
Arithmetic Mean	6.361
Geometric Mean	1.344
Standard Deviation	8.054

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	3.900
Arithmetic Mean	5.197
Geometric Mean	3.909
Standard Deviation	5.357

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE

N of Cases	9
Median	1.900
Arithmetic Mean	3.428
Geometric Mean	1.667
Standard Deviation	3.615

Results for CITY$ = Mesquite QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	2.600
Arithmetic Mean	2.856
Geometric Mean	2.242
Standard Deviation	1.953

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	1.800
Arithmetic Mean	5.997
Geometric Mean	0.760
Standard Deviation	10.368

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	3.000
Arithmetic Mean	5.744
Geometric Mean	4.077
Standard Deviation	5.034

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	2.200
Arithmetic Mean	8.863
Geometric Mean	2.894

```
Standard Deviation ¦ 20.314
```

Results for CITY$ = NTTA QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 3.075
Arithmetic Mean     ¦ 3.437
Geometric Mean      ¦ 3.030
Standard Deviation  ¦ 1.786
```

Results for CITY$ = NTTA QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 1.500
Arithmetic Mean     ¦ 3.442
Geometric Mean      ¦ 0.649
Standard Deviation  ¦ 5.222
```

Results for CITY$ = NTTA QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 1.900
Arithmetic Mean     ¦ 4.150
Geometric Mean      ¦ 2.609
Standard Deviation  ¦ 5.012
```

Results for CITY$ = NTTA QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 2.600
Arithmetic Mean     ¦ 1.985
Geometric Mean      ¦ 0.598
Standard Deviation  ¦ 1.573
```

Results for CITY$ = Plano QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	3.300
Arithmetic Mean	3.986
Geometric Mean	3.168
Standard Deviation	2.542

Results for CITY$ = Plano QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	1.000
Arithmetic Mean	1.108
Geometric Mean	0.357
Standard Deviation	1.066

Results for CITY$ = Plano QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	1.200
Arithmetic Mean	1.294
Geometric Mean	1.126
Standard Deviation	0.606

Results for CITY$ = Plano QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	9
Median	2.530
Arithmetic Mean	2.222
Geometric Mean	1.439
Standard Deviation	1.036

Results for CITY$ = TxDOT QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	6
Median	2.325
Arithmetic Mean	3.258
Geometric Mean	2.908
Standard Deviation	1.781

Results for CITY$ = TxDOT QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	6
Median	2.250
Arithmetic Mean	6.008
Geometric Mean	0.803
Standard Deviation	8.508

Results for CITY$ = TxDOT QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	6
Median	1.000
Arithmetic Mean	1.175
Geometric Mean	0.933
Standard Deviation	0.772

Results for CITY$ = TxDOT QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

	VALUE
N of Cases	6
Median	1.400
Arithmetic Mean	1.630
Geometric Mean	0.486
Standard Deviation	1.605

▼Descriptive Statistics

Results for QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    67
Median              ¦ 2.750
Arithmetic Mean     ¦ 4.417
Geometric Mean      ¦ 2.829
Standard Deviation  ¦ 5.799
```

Results for QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    71
Median              ¦ 1.400
Arithmetic Mean     ¦ 4.286
Geometric Mean      ¦ 0.808
Standard Deviation  ¦ 6.900
```

Results for QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦     70
Median              ¦  1.900
Arithmetic Mean     ¦  5.244
Geometric Mean      ¦  2.078
Standard Deviation  ¦ 12.144
```

Results for QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'NITROGEN, TOTAL')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    74
Median              ¦ 1.870
Arithmetic Mean     ¦ 3.281
Geometric Mean      ¦ 1.423
Standard Deviation  ¦ 7.430
```

▼Descriptive Statistics

Results for QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Oil and Grease')
```

	VALUE
N of Cases	63
Median	0.700
Arithmetic Mean	3.267
Geometric Mean	1.620
Standard Deviation	5.216

Results for QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Oil and Grease')

	VALUE
N of Cases	73
Median	0.700
Arithmetic Mean	2.317
Geometric Mean	1.228
Standard Deviation	4.787

Results for QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Oil and Grease')

	VALUE
N of Cases	70
Median	1.390
Arithmetic Mean	2.693
Geometric Mean	1.602
Standard Deviation	4.427

Results for QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Oil and Grease')

	VALUE
N of Cases	75
Median	1.265
Arithmetic Mean	3.120
Geometric Mean	1.653
Standard Deviation	6.616

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.025
Arithmetic Mean     ¦ 0.034
Geometric Mean      ¦ 0.029
Standard Deviation  ¦ 0.028
```

Results for CITY$ = Arlington QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.050
Arithmetic Mean     ¦ 0.052
Geometric Mean      ¦ 0.044
Standard Deviation  ¦ 0.031
```

Results for CITY$ = Arlington QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.050
Arithmetic Mean     ¦ 0.043
Geometric Mean      ¦ 0.040
Standard Deviation  ¦ 0.019
```

Results for CITY$ = Arlington QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.050
Arithmetic Mean     ¦ 0.059
Geometric Mean      ¦ 0.047
Standard Deviation  ¦ 0.042
```

Results for CITY$ = Dallas QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')
```

```
                    ¦ VALUE
```

	VALUE
N of Cases	10
Median	0.059
Arithmetic Mean	0.100
Geometric Mean	0.037
Standard Deviation	0.129

Results for CITY$ = Dallas QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	13
Median	0.138
Arithmetic Mean	0.167
Geometric Mean	0.077
Standard Deviation	0.191

Results for CITY$ = Dallas QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	11
Median	0.099
Arithmetic Mean	0.126
Geometric Mean	0.116
Standard Deviation	0.062

Results for CITY$ = Dallas QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	11
Median	0.149
Arithmetic Mean	0.146
Geometric Mean	0.063
Standard Deviation	0.131

Results for CITY$ = Fort Worth QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	3
Median	0.140
Arithmetic Mean	0.163

Geometric Mean	0.135
Standard Deviation	0.117

Results for CITY$ = Fort Worth QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	2
Median	0.145
Arithmetic Mean	0.145
Geometric Mean	0.138
Standard Deviation	0.064

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	6
Median	0.036
Arithmetic Mean	0.052
Geometric Mean	0.040
Standard Deviation	0.041

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.025
Arithmetic Mean	0.110
Geometric Mean	0.045
Standard Deviation	0.202

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.140
Arithmetic Mean	0.103
Geometric Mean	0.071
Standard Deviation	0.075

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.050
Arithmetic Mean	0.087
Geometric Mean	0.064
Standard Deviation	0.073

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.025
Arithmetic Mean	0.101
Geometric Mean	0.060
Standard Deviation	0.104

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.025
Arithmetic Mean	0.091
Geometric Mean	0.044
Standard Deviation	0.166

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.100
Arithmetic Mean	0.174
Geometric Mean	0.103
Standard Deviation	0.167

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to

SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.125
Arithmetic Mean	0.171
Geometric Mean	0.104
Standard Deviation	0.166

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.025
Arithmetic Mean	0.036
Geometric Mean	0.032
Standard Deviation	0.022

Results for CITY$ = Mesquite QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.025
Arithmetic Mean	0.304
Geometric Mean	0.054
Standard Deviation	0.787

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.070
Arithmetic Mean	0.071
Geometric Mean	0.057
Standard Deviation	0.047

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.074
Arithmetic Mean     ¦ 0.093
Geometric Mean      ¦ 0.076
Standard Deviation  ¦ 0.066
```

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.080
Arithmetic Mean     ¦ 0.108
Geometric Mean      ¦ 0.068
Standard Deviation  ¦ 0.108
```

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.025
Arithmetic Mean     ¦ 0.110
Geometric Mean      ¦ 0.053
Standard Deviation  ¦ 0.159
```

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.042
Arithmetic Mean     ¦ 0.096
Geometric Mean      ¦ 0.057
Standard Deviation  ¦ 0.116
```

Results for CITY$ = NTTA QUARTER = 3.000

Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.075
```

Arithmetic Mean	0.106
Geometric Mean	0.080
Standard Deviation	0.086

Results for CITY$ = NTTA QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	6
Median	0.048
Arithmetic Mean	0.098
Geometric Mean	0.059
Standard Deviation	0.115

Results for CITY$ = Plano QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.025
Arithmetic Mean	0.028
Geometric Mean	0.027
Standard Deviation	0.008

Results for CITY$ = Plano QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.080
Arithmetic Mean	0.137
Geometric Mean	0.084
Standard Deviation	0.140

Results for CITY$ = Plano QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.050
Arithmetic Mean	0.041
Geometric Mean	0.038
Standard Deviation	0.017

Results for CITY$ = Plano QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	9
Median	0.025
Arithmetic Mean	0.058
Geometric Mean	0.042
Standard Deviation	0.055

Results for CITY$ = TxDOT QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	6
Median	0.050
Arithmetic Mean	0.060
Geometric Mean	0.058
Standard Deviation	0.018

Results for CITY$ = TxDOT QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	6
Median	0.105
Arithmetic Mean	0.098
Geometric Mean	0.076
Standard Deviation	0.064

Results for CITY$ = TxDOT QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	6
Median	0.050
Arithmetic Mean	0.048
Geometric Mean	0.044
Standard Deviation	0.021

Results for CITY$ = TxDOT QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	6
Median	0.025
Arithmetic Mean	0.048
Geometric Mean	0.038
Standard Deviation	0.042

▼Descriptive Statistics

Results for QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	67
Median	0.025
Arithmetic Mean	0.106
Geometric Mean	0.041
Standard Deviation	0.308

Results for QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	73
Median	0.070
Arithmetic Mean	0.119
Geometric Mean	0.072
Standard Deviation	0.126

Results for QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	70
Median	0.055
Arithmetic Mean	0.093
Geometric Mean	0.068
Standard Deviation	0.087

Results for QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, DISSOLVED')

	VALUE
N of Cases	74
Median	0.025
Arithmetic Mean	0.082
Geometric Mean	0.049
Standard Deviation	0.089

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE
N of Cases	9
Median	0.070
Arithmetic Mean	0.098
Geometric Mean	0.064
Standard Deviation	0.101

Results for CITY$ = Arlington QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE
N of Cases	9
Median	0.110
Arithmetic Mean	0.117
Geometric Mean	0.093
Standard Deviation	0.084

Results for CITY$ = Arlington QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE
N of Cases	9
Median	0.170
Arithmetic Mean	0.173
Geometric Mean	0.125
Standard Deviation	0.125

Results for CITY$ = Arlington QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.160
Arithmetic Mean    ¦ 0.142
Geometric Mean     ¦ 0.096
Standard Deviation ¦ 0.105
```

Results for CITY$ = Dallas QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    10
Median             ¦ 0.551
Arithmetic Mean    ¦ 0.617
Geometric Mean     ¦ 0.335
Standard Deviation ¦ 0.585
```

Results for CITY$ = Dallas QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    13
Median             ¦ 0.224
Arithmetic Mean    ¦ 0.343
Geometric Mean     ¦ 0.233
Standard Deviation ¦ 0.345
```

Results for CITY$ = Dallas QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    11
Median             ¦ 0.402
Arithmetic Mean    ¦ 0.569
Geometric Mean     ¦ 0.409
Standard Deviation ¦ 0.586
```

Results for CITY$ = Dallas QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')
```

	VALUE
N of Cases	11
Median	0.304
Arithmetic Mean	0.294
Geometric Mean	0.223
Standard Deviation	0.190

Results for CITY$ = Fort Worth QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE
N of Cases	3
Median	0.190
Arithmetic Mean	0.223
Geometric Mean	0.219
Standard Deviation	0.058

Results for CITY$ = Fort Worth QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE
N of Cases	2
Median	0.022
Arithmetic Mean	0.023
Geometric Mean	0.014
Standard Deviation	0.025

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE
N of Cases	6
Median	0.052
Arithmetic Mean	0.083
Geometric Mean	0.065
Standard Deviation	0.064

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE

```
N of Cases         ¦      9
Median             ¦ 0.070
Arithmetic Mean    ¦ 0.148
Geometric Mean     ¦ 0.083
Standard Deviation ¦ 0.197
```

Results for CITY$ = Garland QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦      9
Median             ¦ 0.290
Arithmetic Mean    ¦ 0.360
Geometric Mean     ¦ 0.187
Standard Deviation ¦ 0.471
```

Results for CITY$ = Garland QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦      9
Median             ¦ 0.050
Arithmetic Mean    ¦ 0.177
Geometric Mean     ¦ 0.093
Standard Deviation ¦ 0.184
```

Results for CITY$ = Garland QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦      9
Median             ¦ 0.200
Arithmetic Mean    ¦ 0.167
Geometric Mean     ¦ 0.110
Standard Deviation ¦ 0.116
```

Results for CITY$ = Irving QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦      9
Median             ¦ 0.070
Arithmetic Mean    ¦ 0.189
Geometric Mean     ¦ 0.086
```

```
Standard Deviation ¦ 0.254
```

Results for CITY$ = Irving QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.280
Arithmetic Mean     ¦ 0.248
Geometric Mean      ¦ 0.159
Standard Deviation  ¦ 0.177
```

Results for CITY$ = Irving QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.110
Arithmetic Mean     ¦ 0.171
Geometric Mean      ¦ 0.090
Standard Deviation  ¦ 0.227
```

Results for CITY$ = Irving QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.110
Arithmetic Mean     ¦ 0.208
Geometric Mean      ¦ 0.101
Standard Deviation  ¦ 0.216
```

Results for CITY$ = Mesquite QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.064
Arithmetic Mean     ¦ 0.499
Geometric Mean      ¦ 0.095
Standard Deviation  ¦ 1.258
```

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE
N of Cases	9
Median	0.100
Arithmetic Mean	0.140
Geometric Mean	0.125
Standard Deviation	0.071

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE
N of Cases	9
Median	0.196
Arithmetic Mean	0.200
Geometric Mean	0.155
Standard Deviation	0.127

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE
N of Cases	9
Median	0.210
Arithmetic Mean	0.182
Geometric Mean	0.124
Standard Deviation	0.131

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

	VALUE
N of Cases	6
Median	0.463
Arithmetic Mean	0.412
Geometric Mean	0.279
Standard Deviation	0.258

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.130
Arithmetic Mean     ¦ 0.193
Geometric Mean      ¦ 0.135
Standard Deviation  ¦ 0.155
```

Results for CITY$ = NTTA QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.180
Arithmetic Mean     ¦ 0.283
Geometric Mean      ¦ 0.174
Standard Deviation  ¦ 0.288
```

Results for CITY$ = NTTA QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.260
Arithmetic Mean     ¦ 0.440
Geometric Mean      ¦ 0.182
Standard Deviation  ¦ 0.550
```

Results for CITY$ = Plano QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.025
Arithmetic Mean     ¦ 0.051
Geometric Mean      ¦ 0.040
Standard Deviation  ¦ 0.044
```

Results for CITY$ = Plano QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
```

```
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.150
Arithmetic Mean     ¦ 0.325
Geometric Mean      ¦ 0.161
Standard Deviation  ¦ 0.475
```

Results for CITY$ = Plano QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.080
Arithmetic Mean     ¦ 0.146
Geometric Mean      ¦ 0.091
Standard Deviation  ¦ 0.188
```

Results for CITY$ = Plano QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.230
Arithmetic Mean     ¦ 0.207
Geometric Mean      ¦ 0.146
Standard Deviation  ¦ 0.132
```

Results for CITY$ = TxDOT QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.119
Arithmetic Mean     ¦ 0.107
Geometric Mean      ¦ 0.096
Standard Deviation  ¦ 0.048
```

Results for CITY$ = TxDOT QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.205
Arithmetic Mean     ¦ 0.204
```

```
Geometric Mean     ¦ 0.157
Standard Deviation ¦ 0.117
```

Results for CITY$ = TxDOT QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 0.050
Arithmetic Mean    ¦ 0.092
Geometric Mean     ¦ 0.063
Standard Deviation ¦ 0.088
```

Results for CITY$ = TxDOT QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     6
Median             ¦ 0.185
Arithmetic Mean    ¦ 0.227
Geometric Mean     ¦ 0.125
Standard Deviation ¦ 0.213
```

▼Descriptive Statistics

Results for QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    67
Median             ¦ 0.098
Arithmetic Mean    ¦ 0.271
Geometric Mean     ¦ 0.104
Standard Deviation ¦ 0.548
```

Results for QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    73
Median             ¦ 0.170
Arithmetic Mean    ¦ 0.250
```

```
Geometric Mean     ¦ 0.158
Standard Deviation ¦ 0.292
```

Results for QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    70
Median             ¦ 0.145
Arithmetic Mean    ¦ 0.234
Geometric Mean     ¦ 0.125
Standard Deviation ¦ 0.313
```

Results for QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'PHOSPHORUS, TOTAL')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    74
Median             ¦ 0.190
Arithmetic Mean    ¦ 0.215
Geometric Mean     ¦ 0.126
Standard Deviation ¦ 0.220
```

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')


                   ¦       VALUE
-------------------+------------
N of Cases         ¦           9
Median             ¦   8,400.000
Arithmetic Mean    ¦ 108,106.444
Geometric Mean     ¦   3,995.865
Standard Deviation ¦ 304,493.960
```

Results for CITY$ = Arlington QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')


                   ¦       VALUE
-------------------+------------
N of Cases         ¦           9
Median             ¦ 110,000.000
Arithmetic Mean    ¦ 463,366.667
```

Geometric Mean	82,090.199
Standard Deviation	622,148.997

Results for CITY$ = Arlington QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	140,000.000
Arithmetic Mean	148,700.000
Geometric Mean	66,049.685
Standard Deviation	127,984.784

Results for CITY$ = Arlington QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	450,000.000
Arithmetic Mean	1,476,077.778
Geometric Mean	479,030.684
Standard Deviation	1,950,011.963

Results for CITY$ = Dallas QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	40,000.000
Arithmetic Mean	179,034.444
Geometric Mean	66,305.680
Standard Deviation	317,790.871

Results for CITY$ = Dallas QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	14
Median	75,560.000
Arithmetic Mean	111,657.857
Geometric Mean	41,536.878
Standard Deviation	102,742.403

Results for CITY$ = Dallas QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	8
Median	241,960.000
Arithmetic Mean	165,220.000
Geometric Mean	116,867.612
Standard Deviation	106,236.033

Results for CITY$ = Dallas QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	11
Median	35,000.000
Arithmetic Mean	118,217.909
Geometric Mean	47,672.561
Standard Deviation	118,720.371

Results for CITY$ = Fort Worth QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	3
Median	68,670.000
Arithmetic Mean	74,883.333
Geometric Mean	73,066.159
Standard Deviation	20,759.495

Results for CITY$ = Fort Worth QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	2
Median	20,760.500
Arithmetic Mean	20,760.500
Geometric Mean	20,474.940
Standard Deviation	4,852.874

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to

SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	6
Median	5,895.000
Arithmetic Mean	19,303.167
Geometric Mean	6,457.021
Standard Deviation	29,611.410

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	700.000
Arithmetic Mean	2,876.111
Geometric Mean	326.674
Standard Deviation	3,396.131

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	43,600.000
Arithmetic Mean	231,460.000
Geometric Mean	64,097.685
Standard Deviation	311,668.200

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	400,000.000
Arithmetic Mean	1,127,788.889
Geometric Mean	280,206.034
Standard Deviation	2,034,033.997

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	270,000.000
Arithmetic Mean	4,017,111.111
Geometric Mean	352,962.140
Standard Deviation	11,244,573.485

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	19,900.000
Arithmetic Mean	1,113,377.778
Geometric Mean	38,460.498
Standard Deviation	3,182,974.631

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	310,000.000
Arithmetic Mean	390,655.556
Geometric Mean	103,530.179
Standard Deviation	443,302.689

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	14,200.000
Arithmetic Mean	312,734.444
Geometric Mean	7,289.514
Standard Deviation	786,302.379

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	350,000.000

Arithmetic Mean	9,390,366.667
Geometric Mean	588,171.710
Standard Deviation	19,066,645.795

Results for CITY$ = Mesquite QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	8,200.000
Arithmetic Mean	24,290.000
Geometric Mean	2,744.754
Standard Deviation	32,915.504

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	63,600.000
Arithmetic Mean	157,626.667
Geometric Mean	49,326.158
Standard Deviation	186,439.006

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	180,000.000
Arithmetic Mean	6,447,000.167
Geometric Mean	7,958.096
Standard Deviation	12,971,238.417

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	230,000.000
Arithmetic Mean	2,712,333.333
Geometric Mean	274,043.600
Standard Deviation	6,881,886.260

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	6
Median	2,700.000
Arithmetic Mean	35,035.000
Geometric Mean	687.507
Standard Deviation	80,843.915

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	6
Median	46,300.000
Arithmetic Mean	396,430.333
Geometric Mean	41,669.977
Standard Deviation	601,484.874

Results for CITY$ = NTTA QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	6
Median	105,000.000
Arithmetic Mean	10,566,300.000
Geometric Mean	182,094.374
Standard Deviation	25,687,216.822

Results for CITY$ = NTTA QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	6
Median	1,265,000.000
Arithmetic Mean	4,987,500.000
Geometric Mean	762,181.604
Standard Deviation	8,969,411.079

Results for CITY$ = Plano QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	1,600.000
Arithmetic Mean	4,074.444
Geometric Mean	776.549
Standard Deviation	4,341.511

Results for CITY$ = Plano QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	64,500.000
Arithmetic Mean	224,300.000
Geometric Mean	74,959.573
Standard Deviation	336,367.559

Results for CITY$ = Plano QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	116,000.000
Arithmetic Mean	1,158,166.667
Geometric Mean	248,982.841
Standard Deviation	1,899,089.893

Results for CITY$ = Plano QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	9
Median	300,000.000
Arithmetic Mean	8,947,300.000
Geometric Mean	307,595.974
Standard Deviation	24,803,784.247

Results for CITY$ = TxDOT QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	6
Median	9,750.000
Arithmetic Mean	20,783.333
Geometric Mean	5,905.053
Standard Deviation	24,511.174

Results for CITY$ = TxDOT QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	6
Median	625,000.000
Arithmetic Mean	523,352.000
Geometric Mean	84,403.574
Standard Deviation	450,558.790

Results for CITY$ = TxDOT QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	6
Median	71,000.000
Arithmetic Mean	80,516.667
Geometric Mean	36,444.996
Standard Deviation	77,474.910

Results for CITY$ = TxDOT QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	6
Median	461,000.000
Arithmetic Mean	926,333.333
Geometric Mean	525,383.344
Standard Deviation	1,232,946.660

▼Descriptive Statistics

Results for QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	66
Median	7,000.000
Arithmetic Mean	200,314.288
Geometric Mean	3,805.832
Standard Deviation	1,186,865.389

Results for QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	74
Median	75,335.000
Arithmetic Mean	277,205.865
Geometric Mean	63,220.079
Standard Deviation	390,763.196

Results for QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	67
Median	116,000.000
Arithmetic Mean	2,208,861.082
Geometric Mean	57,581.252
Standard Deviation	9,090,654.835

Results for QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Total Coliforms')

	VALUE
N of Cases	74
Median	241,960.000
Arithmetic Mean	3,726,863.730
Geometric Mean	219,368.653
Standard Deviation	12,011,881.483

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	208.000
Arithmetic Mean	298.444
Geometric Mean	232.697
Standard Deviation	220.403

Results for CITY$ = Arlington QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	296.000
Arithmetic Mean	297.222
Geometric Mean	255.443
Standard Deviation	145.690

Results for CITY$ = Arlington QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	280.000
Arithmetic Mean	494.000
Geometric Mean	306.324
Standard Deviation	538.382

Results for CITY$ = Arlington QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	302.000
Arithmetic Mean	359.333
Geometric Mean	294.538
Standard Deviation	273.565

Results for CITY$ = Dallas QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE

	VALUE
N of Cases	10
Median	276.000
Arithmetic Mean	321.000
Geometric Mean	245.982
Standard Deviation	203.040

Results for CITY$ = Dallas QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	14
Median	289.000
Arithmetic Mean	286.143
Geometric Mean	225.929
Standard Deviation	173.131

Results for CITY$ = Dallas QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	11
Median	186.000
Arithmetic Mean	177.000
Geometric Mean	139.841
Standard Deviation	106.041

Results for CITY$ = Dallas QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	11
Median	236.000
Arithmetic Mean	231.455
Geometric Mean	222.588
Standard Deviation	65.843

Results for CITY$ = Fort Worth QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	3
Median	340.000
Arithmetic Mean	346.667
Geometric Mean	346.257

Standard Deviation ¦ 20.817

Results for CITY$ = Fort Worth QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	2
Median	394.500
Arithmetic Mean	394.500
Geometric Mean	389.191
Standard Deviation	91.217

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	6
Median	288.000
Arithmetic Mean	480.000
Geometric Mean	284.657
Standard Deviation	569.009

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	430.000
Arithmetic Mean	389.889
Geometric Mean	345.296
Standard Deviation	158.849

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	432.000
Arithmetic Mean	440.889
Geometric Mean	377.890
Standard Deviation	186.285

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	312.000
Arithmetic Mean	320.889
Geometric Mean	309.760
Standard Deviation	87.499

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	338.000
Arithmetic Mean	422.667
Geometric Mean	373.288
Standard Deviation	272.754

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	302.000
Arithmetic Mean	300.556
Geometric Mean	245.079
Standard Deviation	171.071

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	232.000
Arithmetic Mean	235.778
Geometric Mean	221.226
Standard Deviation	74.743

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

```
                    ¦   VALUE
--------------------+--------
N of Cases          ¦       9
Median              ¦ 542.000
Arithmetic Mean     ¦ 489.333
Geometric Mean      ¦ 445.423
Standard Deviation  ¦ 218.197
```

Results for CITY$ = Irving QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦       9
Median              ¦ 160.000
Arithmetic Mean     ¦ 314.889
Geometric Mean      ¦ 171.258
Standard Deviation  ¦ 391.248
```

Results for CITY$ = Mesquite QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦       9
Median              ¦ 220.000
Arithmetic Mean     ¦ 203.333
Geometric Mean      ¦ 191.822
Standard Deviation  ¦  64.203
```

Results for CITY$ = Mesquite QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦       9
Median              ¦ 428.000
Arithmetic Mean     ¦ 390.889
Geometric Mean      ¦ 336.371
Standard Deviation  ¦ 196.061
```

Results for CITY$ = Mesquite QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')


                    ¦   VALUE
```

	VALUE
N of Cases	8
Median	274.000
Arithmetic Mean	266.750
Geometric Mean	249.742
Standard Deviation	88.827

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	256.000
Arithmetic Mean	261.111
Geometric Mean	215.590
Standard Deviation	171.126

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	6
Median	326.000
Arithmetic Mean	342.500
Geometric Mean	267.658
Standard Deviation	232.074

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	6
Median	304.000
Arithmetic Mean	316.000
Geometric Mean	240.975
Standard Deviation	242.705

Results for CITY$ = NTTA QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	6
Median	320.000
Arithmetic Mean	389.667

Geometric Mean	323.589
Standard Deviation	249.298

Results for CITY$ = NTTA QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	6
Median	198.000
Arithmetic Mean	250.667
Geometric Mean	194.213
Standard Deviation	195.790

Results for CITY$ = Plano QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	290.000
Arithmetic Mean	274.222
Geometric Mean	211.152
Standard Deviation	165.977

Results for CITY$ = Plano QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	302.000
Arithmetic Mean	334.556
Geometric Mean	309.182
Standard Deviation	130.387

Results for CITY$ = Plano QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	376.000
Arithmetic Mean	456.889
Geometric Mean	396.720
Standard Deviation	252.518

Results for CITY$ = Plano QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	9
Median	328.000
Arithmetic Mean	252.444
Geometric Mean	219.866
Standard Deviation	108.677

Results for CITY$ = TxDOT QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	6
Median	237.000
Arithmetic Mean	215.833
Geometric Mean	179.820
Standard Deviation	112.290

Results for CITY$ = TxDOT QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	6
Median	286.000
Arithmetic Mean	293.833
Geometric Mean	259.702
Standard Deviation	145.121

Results for CITY$ = TxDOT QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	6
Median	275.000
Arithmetic Mean	258.167
Geometric Mean	254.589
Standard Deviation	45.398

Results for CITY$ = TxDOT QUARTER = 4.000

Data for the following results were selected according to

SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	6
Median	232.000
Arithmetic Mean	301.333
Geometric Mean	253.552
Standard Deviation	180.110

▼Descriptive Statistics

Results for QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	67
Median	255.000
Arithmetic Mean	294.896
Geometric Mean	237.093
Standard Deviation	174.085

Results for QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	74
Median	321.000
Arithmetic Mean	324.311
Geometric Mean	274.663
Standard Deviation	165.280

Results for QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')

	VALUE
N of Cases	69
Median	296.000
Arithmetic Mean	356.623
Geometric Mean	285.887
Standard Deviation	262.499

Results for QUARTER = 4.000

Data for the following results were selected according to

```
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL DISSOLVED SOLIDS')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦      74
Median              ¦ 256.000
Arithmetic Mean     ¦ 313.946
Geometric Mean      ¦ 240.917
Standard Deviation  ¦ 267.220
```

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦       9
Median              ¦ 107.000
Arithmetic Mean     ¦ 109.637
Geometric Mean      ¦  69.930
Standard Deviation  ¦  84.095
```

Results for CITY$ = Arlington QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦       9
Median              ¦  94.000
Arithmetic Mean     ¦ 245.586
Geometric Mean      ¦  74.462
Standard Deviation  ¦ 293.910
```

Results for CITY$ = Arlington QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦       9
Median              ¦ 302.000
Arithmetic Mean     ¦ 470.962
Geometric Mean      ¦ 225.187
Standard Deviation  ¦ 457.618
```

Results for CITY$ = Arlington QUARTER = 4.000

```
Data for the following results were selected according to
```

SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	34.000
Arithmetic Mean	119.786
Geometric Mean	52.911
Standard Deviation	139.478

Results for CITY$ = Dallas QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	10
Median	111.500
Arithmetic Mean	356.350
Geometric Mean	89.418
Standard Deviation	530.732

Results for CITY$ = Dallas QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	14
Median	51.000
Arithmetic Mean	95.214
Geometric Mean	38.166
Standard Deviation	161.925

Results for CITY$ = Dallas QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	11
Median	85.000
Arithmetic Mean	440.455
Geometric Mean	182.380
Standard Deviation	562.756

Results for CITY$ = Dallas QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	11
Median	57.000
Arithmetic Mean	125.682
Geometric Mean	53.610
Standard Deviation	163.253

Results for CITY$ = Fort Worth QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	3
Median	1.000
Arithmetic Mean	12.000
Geometric Mean	3.240
Standard Deviation	19.053

Results for CITY$ = Fort Worth QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	2
Median	281.500
Arithmetic Mean	281.500
Geometric Mean	174.991
Standard Deviation	311.834

Results for CITY$ = Fort Worth QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	6
Median	4.685
Arithmetic Mean	17.145
Geometric Mean	7.144
Standard Deviation	21.423

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	9.000

Arithmetic Mean	33.874
Geometric Mean	12.653
Standard Deviation	54.692

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	430.000
Arithmetic Mean	401.556
Geometric Mean	233.445
Standard Deviation	313.331

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	22.000
Arithmetic Mean	300.274
Geometric Mean	47.406
Standard Deviation	550.568

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	132.000
Arithmetic Mean	202.486
Geometric Mean	115.435
Standard Deviation	195.913

Results for CITY$ = Irving QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	86.000
Arithmetic Mean	206.222
Geometric Mean	91.139
Standard Deviation	281.060

Results for CITY$ = Irving QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	202.000
Arithmetic Mean	340.389
Geometric Mean	164.788
Standard Deviation	383.333

Results for CITY$ = Irving QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	64.000
Arithmetic Mean	183.330
Geometric Mean	50.162
Standard Deviation	335.044

Results for CITY$ = Irving QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	80.670
Arithmetic Mean	82.616
Geometric Mean	68.677
Standard Deviation	47.825

Results for CITY$ = Mesquite QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	97.500
Arithmetic Mean	118.322
Geometric Mean	80.043
Standard Deviation	109.610

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	272.000
Arithmetic Mean	375.941
Geometric Mean	77.167
Standard Deviation	513.666

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	84.000
Arithmetic Mean	155.467
Geometric Mean	66.010
Standard Deviation	231.823

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	9
Median	101.300
Arithmetic Mean	139.926
Geometric Mean	63.337
Standard Deviation	145.198

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	6
Median	43.850
Arithmetic Mean	86.700
Geometric Mean	43.269
Standard Deviation	88.475

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

```
                    ¦   VALUE
--------------------+--------
N of Cases          ¦       6
Median              ¦ 139.500
Arithmetic Mean     ¦ 172.500
Geometric Mean      ¦ 139.188
Standard Deviation  ¦ 119.853
```

Results for CITY$ = NTTA QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')
```

```
                    ¦   VALUE
--------------------+--------
N of Cases          ¦       6
Median              ¦  76.850
Arithmetic Mean     ¦ 179.140
Geometric Mean      ¦  34.619
Standard Deviation  ¦ 279.750
```

Results for CITY$ = NTTA QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')
```

```
                    ¦   VALUE
--------------------+--------
N of Cases          ¦       6
Median              ¦ 100.315
Arithmetic Mean     ¦ 202.772
Geometric Mean      ¦ 135.241
Standard Deviation  ¦ 216.568
```

Results for CITY$ = Plano QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')
```

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦      9
Median              ¦ 45.000
Arithmetic Mean     ¦ 80.592
Geometric Mean      ¦ 36.736
Standard Deviation  ¦ 90.447
```

Results for CITY$ = Plano QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')
```

```
                    ¦   VALUE
--------------------+--------
```

```
N of Cases           ¦       9
Median               ¦ 162.000
Arithmetic Mean      ¦ 620.778
Geometric Mean       ¦ 231.662
Standard Deviation   ¦ 861.250
```

Results for CITY$ = Plano QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')


                     ¦   VALUE
---------------------+--------
N of Cases           ¦       9
Median               ¦  13.000
Arithmetic Mean      ¦ 104.448
Geometric Mean       ¦  22.375
Standard Deviation   ¦ 200.609
```

Results for CITY$ = Plano QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')


                     ¦   VALUE
---------------------+--------
N of Cases           ¦       9
Median               ¦ 114.000
Arithmetic Mean      ¦ 128.814
Geometric Mean       ¦  86.837
Standard Deviation   ¦  93.973
```

Results for CITY$ = TxDOT QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')


                     ¦  VALUE
---------------------+-------
N of Cases           ¦      6
Median               ¦ 29.850
Arithmetic Mean      ¦ 30.783
Geometric Mean       ¦ 28.269
Standard Deviation   ¦ 12.685
```

Results for CITY$ = TxDOT QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')


                     ¦   VALUE
---------------------+--------
N of Cases           ¦       6
Median               ¦ 315.500
Arithmetic Mean      ¦ 301.917
Geometric Mean       ¦ 193.853
```

Standard Deviation	228.732

Results for CITY$ = TxDOT QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	6
Median	89.000
Arithmetic Mean	111.445
Geometric Mean	83.064
Standard Deviation	89.501

Results for CITY$ = TxDOT QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	6
Median	104.650
Arithmetic Mean	109.500
Geometric Mean	75.223
Standard Deviation	76.466

▼Descriptive Statistics

Results for QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	67
Median	47.000
Arithmetic Mean	137.406
Geometric Mean	49.288
Standard Deviation	251.974

Results for QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	74
Median	122.000
Arithmetic Mean	298.294
Geometric Mean	95.873

Standard Deviation ¦ 428.718

Results for QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	70
Median	77.000
Arithmetic Mean	258.312
Geometric Mean	72.425
Standard Deviation	394.904

Results for QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS')

	VALUE
N of Cases	74
Median	81.000
Arithmetic Mean	127.319
Geometric Mean	61.655
Standard Deviation	140.086

▼Descriptive Statistics

Results for CITY$ = Arlington QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	9
Median	0.045
Arithmetic Mean	0.075
Geometric Mean	0.056
Standard Deviation	0.059

Results for CITY$ = Arlington QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	9
Median	0.042
Arithmetic Mean	0.051
Geometric Mean	0.046

```
Standard Deviation ¦ 0.027
```

Results for CITY$ = Arlington QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.059
Arithmetic Mean    ¦ 0.070
Geometric Mean     ¦ 0.066
Standard Deviation ¦ 0.028
```

Results for CITY$ = Arlington QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     9
Median             ¦ 0.013
Arithmetic Mean    ¦ 0.026
Geometric Mean     ¦ 0.011
Standard Deviation ¦ 0.031
```

Results for CITY$ = Dallas QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    10
Median             ¦ 0.028
Arithmetic Mean    ¦ 0.056
Geometric Mean     ¦ 0.029
Standard Deviation ¦ 0.066
```

Results for CITY$ = Dallas QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    14
Median             ¦ 0.032
Arithmetic Mean    ¦ 0.046
Geometric Mean     ¦ 0.026
Standard Deviation ¦ 0.050
```

Results for CITY$ = Dallas QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    11
Median             ¦ 0.031
Arithmetic Mean    ¦ 0.065
Geometric Mean     ¦ 0.047
Standard Deviation ¦ 0.058
```

Results for CITY$ = Dallas QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    11
Median             ¦ 0.031
Arithmetic Mean    ¦ 0.058
Geometric Mean     ¦ 0.035
Standard Deviation ¦ 0.058
```

Results for CITY$ = Fort Worth QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     3
Median             ¦ 0.008
Arithmetic Mean    ¦ 0.008
Geometric Mean     ¦ 0.008
Standard Deviation ¦ 0.002
```

Results for CITY$ = Fort Worth QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     2
Median             ¦ 0.020
Arithmetic Mean    ¦ 0.020
Geometric Mean     ¦ 0.010
Standard Deviation ¦ 0.025
```

Results for CITY$ = Fort Worth QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')
```

	VALUE
N of Cases	6
Median	0.022
Arithmetic Mean	0.029
Geometric Mean	0.022
Standard Deviation	0.022

Results for CITY$ = Garland QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	9
Median	0.035
Arithmetic Mean	0.040
Geometric Mean	0.032
Standard Deviation	0.032

Results for CITY$ = Garland QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	9
Median	0.043
Arithmetic Mean	0.047
Geometric Mean	0.043
Standard Deviation	0.022

Results for CITY$ = Garland QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	9
Median	0.032
Arithmetic Mean	0.046
Geometric Mean	0.031
Standard Deviation	0.043

Results for CITY$ = Garland QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE

```
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.032
Arithmetic Mean     ¦ 0.028
Geometric Mean      ¦ 0.010
Standard Deviation  ¦ 0.029
```

Results for CITY$ = Irving QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.060
Arithmetic Mean     ¦ 0.060
Geometric Mean      ¦ 0.053
Standard Deviation  ¦ 0.033
```

Results for CITY$ = Irving QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.058
Arithmetic Mean     ¦ 0.213
Geometric Mean      ¦ 0.084
Standard Deviation  ¦ 0.448
```

Results for CITY$ = Irving QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.013
Arithmetic Mean     ¦ 0.030
Geometric Mean      ¦ 0.010
Standard Deviation  ¦ 0.038
```

Results for CITY$ = Irving QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.058
Arithmetic Mean     ¦ 0.084
```

Geometric Mean	0.049
Standard Deviation	0.097

Results for CITY$ = Mesquite QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	9
Median	0.043
Arithmetic Mean	0.066
Geometric Mean	0.053
Standard Deviation	0.056

Results for CITY$ = Mesquite QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	9
Median	0.046
Arithmetic Mean	0.052
Geometric Mean	0.036
Standard Deviation	0.032

Results for CITY$ = Mesquite QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	9
Median	0.050
Arithmetic Mean	0.055
Geometric Mean	0.051
Standard Deviation	0.023

Results for CITY$ = Mesquite QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	9
Median	0.056
Arithmetic Mean	0.046
Geometric Mean	0.032
Standard Deviation	0.024

Results for CITY$ = NTTA QUARTER = 1.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	6
Median	0.065
Arithmetic Mean	0.069
Geometric Mean	0.064
Standard Deviation	0.029

Results for CITY$ = NTTA QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	6
Median	0.068
Arithmetic Mean	0.174
Geometric Mean	0.080
Standard Deviation	0.282

Results for CITY$ = NTTA QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	6
Median	0.057
Arithmetic Mean	0.062
Geometric Mean	0.051
Standard Deviation	0.038

Results for CITY$ = NTTA QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	6
Median	0.097
Arithmetic Mean	0.106
Geometric Mean	0.049
Standard Deviation	0.089

Results for CITY$ = Plano QUARTER = 1.000

Data for the following results were selected according to

```
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.037
Arithmetic Mean     ¦ 0.054
Geometric Mean      ¦ 0.045
Standard Deviation  ¦ 0.037
```

Results for CITY$ = Plano QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.048
Arithmetic Mean     ¦ 0.054
Geometric Mean      ¦ 0.045
Standard Deviation  ¦ 0.038
```

Results for CITY$ = Plano QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.035
Arithmetic Mean     ¦ 0.043
Geometric Mean      ¦ 0.031
Standard Deviation  ¦ 0.038
```

Results for CITY$ = Plano QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.038
Arithmetic Mean     ¦ 0.040
Geometric Mean      ¦ 0.033
Standard Deviation  ¦ 0.024
```

Results for CITY$ = TxDOT QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.047
Arithmetic Mean     ¦ 0.080
Geometric Mean      ¦ 0.050
Standard Deviation  ¦ 0.102
```

Results for CITY$ = TxDOT QUARTER = 2.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.058
Arithmetic Mean     ¦ 0.056
Geometric Mean      ¦ 0.055
Standard Deviation  ¦ 0.012
```

Results for CITY$ = TxDOT QUARTER = 3.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.051
Arithmetic Mean     ¦ 0.059
Geometric Mean      ¦ 0.048
Standard Deviation  ¦ 0.038
```

Results for CITY$ = TxDOT QUARTER = 4.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     6
Median              ¦ 0.073
Arithmetic Mean     ¦ 0.081
Geometric Mean      ¦ 0.067
Standard Deviation  ¦ 0.048
```

▼Descriptive Statistics

Results for QUARTER = 1.000

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')
```

	VALUE
N of Cases	67
Median	0.043
Arithmetic Mean	0.061
Geometric Mean	0.045
Standard Deviation	0.053

Results for QUARTER = 2.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	74
Median	0.047
Arithmetic Mean	0.079
Geometric Mean	0.042
Standard Deviation	0.179

Results for QUARTER = 3.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	70
Median	0.039
Arithmetic Mean	0.053
Geometric Mean	0.035
Standard Deviation	0.040

Results for QUARTER = 4.000

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2') AND (PARAMETER$ = 'Zinc')

	VALUE
N of Cases	74
Median	0.038
Arithmetic Mean	0.053
Geometric Mean	0.028
Standard Deviation	0.057

Appendix I

Antecedent Dry Period Group Summary Statistics

Results for PARAMETER$ = Arsenic ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	0.003
Arithmetic Mean	0.003
Geometric Mean	0.003
Standard Deviation	0.003

Results for PARAMETER$ = Arsenic ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	0.002
Arithmetic Mean	0.005
Geometric Mean	0.003
Standard Deviation	0.005

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	10.600
Arithmetic Mean	12.135
Geometric Mean	9.630
Standard Deviation	8.390

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	10.000
Arithmetic Mean	12.944
Geometric Mean	7.501
Standard Deviation	12.313

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to

SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	45.000
Arithmetic Mean	49.262
Geometric Mean	36.146
Standard Deviation	29.520

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	21.800
Arithmetic Mean	65.457
Geometric Mean	19.734
Standard Deviation	110.083

Results for PARAMETER$ = Chromium ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	0.003
Arithmetic Mean	0.005
Geometric Mean	0.003
Standard Deviation	0.005

Results for PARAMETER$ = Chromium ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	0.010
Arithmetic Mean	0.011
Geometric Mean	0.009
Standard Deviation	0.006

Results for PARAMETER$ = Copper ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    29
Median              ¦ 0.028
Arithmetic Mean     ¦ 0.034
Geometric Mean      ¦ 0.025
Standard Deviation  ¦ 0.026
```

Results for PARAMETER$ = Copper ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Arlington')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     7
Median              ¦ 0.023
Arithmetic Mean     ¦ 0.023
Geometric Mean      ¦ 0.018
Standard Deviation  ¦ 0.013
```

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Arlington')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    29
Median              ¦ 0.050
Arithmetic Mean     ¦ 0.053
Geometric Mean      ¦ 0.044
Standard Deviation  ¦ 0.033
```

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Arlington')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     7
Median              ¦ 0.025
Arithmetic Mean     ¦ 0.025
Geometric Mean      ¦ 0.025
Standard Deviation  ¦ 0.000
```

Results for PARAMETER$ = E coli ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Arlington')
```

```
                    ¦       VALUE
--------------------+------------
N of Cases          ¦          29
Median              ¦   2,200.000
```

Arithmetic Mean	39,206.569
Geometric Mean	1,568.813
Standard Deviation	106,029.307

Results for PARAMETER$ = E coli ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	300.000
Arithmetic Mean	4,443.143
Geometric Mean	578.407
Standard Deviation	7,658.464

Results for PARAMETER$ = Field pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	26
Median	7.845
Arithmetic Mean	7.863
Geometric Mean	7.851
Standard Deviation	0.435

Results for PARAMETER$ = Field pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	3
Median	7.490
Arithmetic Mean	7.283
Geometric Mean	7.276
Standard Deviation	0.402

Results for PARAMETER$ = Lab pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	7.460
Arithmetic Mean	7.438
Geometric Mean	7.429
Standard Deviation	0.371

Results for PARAMETER$ = Lab pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	7.550
Arithmetic Mean	7.594
Geometric Mean	7.585
Standard Deviation	0.408

Results for PARAMETER$ = Lead ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	0.006
Arithmetic Mean	0.008
Geometric Mean	0.006
Standard Deviation	0.006

Results for PARAMETER$ = Lead ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	0.002
Arithmetic Mean	0.003
Geometric Mean	0.003
Standard Deviation	0.003

Results for PARAMETER$ = Oil and Grease ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	28
Median	2.000
Arithmetic Mean	3.014
Geometric Mean	2.071
Standard Deviation	2.767

Results for PARAMETER$ = Oil and Grease ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	0.700
Arithmetic Mean	1.457
Geometric Mean	0.951
Standard Deviation	2.003

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	268.000
Arithmetic Mean	301.897
Geometric Mean	239.289
Standard Deviation	217.714

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	290.000
Arithmetic Mean	612.286
Geometric Mean	450.512
Standard Deviation	553.251

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	1.200
Arithmetic Mean	1.746
Geometric Mean	0.630
Standard Deviation	1.784

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	21.800
Arithmetic Mean	30.226
Geometric Mean	21.641
Standard Deviation	29.124

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	0.110
Arithmetic Mean	0.138
Geometric Mean	0.103
Standard Deviation	0.096

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	0.025
Arithmetic Mean	0.107
Geometric Mean	0.056
Standard Deviation	0.138

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	94.000
Arithmetic Mean	182.309
Geometric Mean	75.479
Standard Deviation	233.420

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE

	VALUE
N of Cases	7
Median	252.000
Arithmetic Mean	460.967
Geometric Mean	173.621
Standard Deviation	479.251

Results for PARAMETER$ = Total Coliforms ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	110,000.000
Arithmetic Mean	658,402.000
Geometric Mean	68,499.956
Standard Deviation	1,245,930.564

Results for PARAMETER$ = Total Coliforms ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	13,500.000
Arithmetic Mean	96,085.714
Geometric Mean	26,046.172
Standard Deviation	149,435.208

Results for PARAMETER$ = Zinc ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	29
Median	0.044
Arithmetic Mean	0.056
Geometric Mean	0.034
Standard Deviation	0.045

Results for PARAMETER$ = Zinc ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	7
Median	0.047
Arithmetic Mean	0.056
Geometric Mean	0.051

Standard Deviation ¦ 0.026

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	34
Median	0.002
Arithmetic Mean	0.003
Geometric Mean	0.003
Standard Deviation	0.002

Results for PARAMETER$ = Arsenic ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	12
Median	0.005
Arithmetic Mean	0.005
Geometric Mean	0.004
Standard Deviation	0.003

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	34
Median	9.020
Arithmetic Mean	16.801
Geometric Mean	9.353
Standard Deviation	21.920

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	12
Median	5.265
Arithmetic Mean	6.612
Geometric Mean	5.215

Standard Deviation ¦ 5.553

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	34
Median	44.650
Arithmetic Mean	62.997
Geometric Mean	33.338
Standard Deviation	73.261

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	12
Median	20.100
Arithmetic Mean	46.675
Geometric Mean	22.481
Standard Deviation	70.107

Results for PARAMETER$ = Chromium ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	34
Median	0.004
Arithmetic Mean	0.007
Geometric Mean	0.004
Standard Deviation	0.007

Results for PARAMETER$ = Chromium ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	12
Median	0.003
Arithmetic Mean	0.010
Geometric Mean	0.005
Standard Deviation	0.016

Results for PARAMETER$ = Copper ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    34
Median             ¦ 0.008
Arithmetic Mean    ¦ 0.014
Geometric Mean     ¦ 0.008
Standard Deviation ¦ 0.016
```

Results for PARAMETER$ = Copper ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    12
Median             ¦ 0.005
Arithmetic Mean    ¦ 0.013
Geometric Mean     ¦ 0.007
Standard Deviation ¦ 0.016
```

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    33
Median             ¦ 0.127
Arithmetic Mean    ¦ 0.154
Geometric Mean     ¦ 0.077
Standard Deviation ¦ 0.149
```

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    12
Median             ¦ 0.097
Arithmetic Mean    ¦ 0.090
Geometric Mean     ¦ 0.052
Standard Deviation ¦ 0.083
```

Results for PARAMETER$ = E coli ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')
```

	VALUE
N of Cases	33
Median	4,080.000
Arithmetic Mean	35,750.091
Geometric Mean	4,113.134
Standard Deviation	70,140.172

Results for PARAMETER$ = E coli ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	9
Median	525.000
Arithmetic Mean	4,387.611
Geometric Mean	213.309
Standard Deviation	12,060.904

Results for PARAMETER$ = Field pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	27
Median	7.600
Arithmetic Mean	7.610
Geometric Mean	7.606
Standard Deviation	0.240

Results for PARAMETER$ = Field pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	10
Median	7.800
Arithmetic Mean	7.880
Geometric Mean	7.878
Standard Deviation	0.169

Results for PARAMETER$ = Lab pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE

```
--------------------+------
N of Cases          ¦     7
Median              ¦ 7.900
Arithmetic Mean     ¦ 7.771
Geometric Mean      ¦ 7.769
Standard Deviation  ¦ 0.212
```

Results for PARAMETER$ = Lab pH ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     2
Median              ¦ 7.500
Arithmetic Mean     ¦ 7.500
Geometric Mean      ¦ 7.496
Standard Deviation  ¦ 0.354
```

Results for PARAMETER$ = Lead ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    34
Median              ¦ 0.007
Arithmetic Mean     ¦ 0.015
Geometric Mean      ¦ 0.008
Standard Deviation  ¦ 0.017
```

Results for PARAMETER$ = Lead ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    12
Median              ¦ 0.007
Arithmetic Mean     ¦ 0.021
Geometric Mean      ¦ 0.010
Standard Deviation  ¦ 0.032
```

Results for PARAMETER$ = Oil and Grease ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    34
Median              ¦ 1.130
Arithmetic Mean     ¦ 1.657
```

Geometric Mean	1.205
Standard Deviation	1.269

Results for PARAMETER$ = Oil and Grease ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	12
Median	2.500
Arithmetic Mean	1.953
Geometric Mean	1.654
Standard Deviation	0.878

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	34
Median	203.000
Arithmetic Mean	232.706
Geometric Mean	182.222
Standard Deviation	150.786

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	12
Median	292.000
Arithmetic Mean	316.417
Geometric Mean	283.398
Standard Deviation	145.912

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	31
Median	1.730
Arithmetic Mean	3.236
Geometric Mean	1.722
Standard Deviation	7.056

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	12
Median	1.230
Arithmetic Mean	1.920
Geometric Mean	1.407
Standard Deviation	1.945

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	33
Median	0.402
Arithmetic Mean	0.482
Geometric Mean	0.345
Standard Deviation	0.396

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	12
Median	0.148
Arithmetic Mean	0.351
Geometric Mean	0.172
Standard Deviation	0.601

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	34
Median	67.000
Arithmetic Mean	207.456
Geometric Mean	72.981
Standard Deviation	328.621

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Short

Data for the following results were selected according to

SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	12
Median	63.000
Arithmetic Mean	339.208
Geometric Mean	70.808
Standard Deviation	572.567

Results for PARAMETER$ = Total Coliforms ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	33
Median	173,290.000
Arithmetic Mean	163,457.485
Geometric Mean	85,671.673
Standard Deviation	181,534.273

Results for PARAMETER$ = Total Coliforms ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	9
Median	20,000.000
Arithmetic Mean	44,731.111
Geometric Mean	13,842.420
Standard Deviation	75,809.623

Results for PARAMETER$ = Zinc ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	34
Median	0.034
Arithmetic Mean	0.058
Geometric Mean	0.038
Standard Deviation	0.054

Results for PARAMETER$ = Zinc ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	12
Median	0.024
Arithmetic Mean	0.049
Geometric Mean	0.022
Standard Deviation	0.063

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	11
Median	0.003
Arithmetic Mean	0.008
Geometric Mean	0.004
Standard Deviation	0.008

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	11
Median	1.000
Arithmetic Mean	2.814
Geometric Mean	1.561
Standard Deviation	2.757

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	11
Median	32.000
Arithmetic Mean	61.091
Geometric Mean	29.985
Standard Deviation	76.389

Results for PARAMETER$ = Chromium ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 0.001
Arithmetic Mean     ¦ 0.003
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.003
```

Results for PARAMETER$ = Copper ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.003
```

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 0.095
Arithmetic Mean     ¦ 0.099
Geometric Mean      ¦ 0.069
Standard Deviation  ¦ 0.083
```

Results for PARAMETER$ = E coli ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                    ¦     VALUE
--------------------+----------
N of Cases          ¦        11
Median              ¦   517.000
Arithmetic Mean     ¦ 3,031.364
Geometric Mean      ¦   544.216
Standard Deviation  ¦ 5,418.907
```

Results for PARAMETER$ = Field pH ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     8
Median              ¦ 7.770
```

	VALUE
Arithmetic Mean	7.745
Geometric Mean	7.738
Standard Deviation	0.347

Results for PARAMETER$ = Lab pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	3
Median	7.830
Arithmetic Mean	7.710
Geometric Mean	7.706
Standard Deviation	0.289

Results for PARAMETER$ = Lead ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	11
Median	0.009
Arithmetic Mean	0.010
Geometric Mean	0.007
Standard Deviation	0.009

Results for PARAMETER$ = Oil and Grease ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	11
Median	2.600
Arithmetic Mean	6.409
Geometric Mean	2.426
Standard Deviation	11.030

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	11
Median	330.000
Arithmetic Mean	428.091
Geometric Mean	317.850
Standard Deviation	408.210

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	11
Median	0.640
Arithmetic Mean	0.813
Geometric Mean	0.577
Standard Deviation	0.625

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	11
Median	0.053
Arithmetic Mean	0.110
Geometric Mean	0.068
Standard Deviation	0.093

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	11
Median	5.700
Arithmetic Mean	63.806
Geometric Mean	10.300
Standard Deviation	147.023

Results for PARAMETER$ = Total Coliforms ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	11
Median	24,192.000
Arithmetic Mean	34,726.364
Geometric Mean	15,435.692
Standard Deviation	34,532.201

Results for PARAMETER$ = Zinc ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

	VALUE
N of Cases	11
Median	0.011
Arithmetic Mean	0.022
Geometric Mean	0.015
Standard Deviation	0.020

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')
```

	VALUE
N of Cases	25
Median	0.004
Arithmetic Mean	0.006
Geometric Mean	0.003
Standard Deviation	0.010

Results for PARAMETER$ = Arsenic ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')
```

	VALUE
N of Cases	11
Median	0.001
Arithmetic Mean	0.005
Geometric Mean	0.002
Standard Deviation	0.007

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')
```

	VALUE
N of Cases	25
Median	5.760
Arithmetic Mean	6.042
Geometric Mean	4.465
Standard Deviation	3.927

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	1.500
Arithmetic Mean	6.729
Geometric Mean	3.453
Standard Deviation	7.926

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	23.000
Arithmetic Mean	34.167
Geometric Mean	21.502
Standard Deviation	50.793

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	45.600
Arithmetic Mean	37.917
Geometric Mean	21.069
Standard Deviation	29.533

Results for PARAMETER$ = Chromium ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	0.002
Arithmetic Mean	0.003
Geometric Mean	0.003
Standard Deviation	0.002

Results for PARAMETER$ = Chromium ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	0.004
Arithmetic Mean	0.006
Geometric Mean	0.005
Standard Deviation	0.004

Results for PARAMETER$ = Copper ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	0.026
Arithmetic Mean	0.025
Geometric Mean	0.020
Standard Deviation	0.014

Results for PARAMETER$ = Copper ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	0.019
Arithmetic Mean	0.021
Geometric Mean	0.017
Standard Deviation	0.013

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	0.120
Arithmetic Mean	0.132
Geometric Mean	0.082
Standard Deviation	0.133

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE

	VALUE
N of Cases	11
Median	0.025
Arithmetic Mean	0.030
Geometric Mean	0.028
Standard Deviation	0.010

Results for PARAMETER$ = E coli ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	455.000
Arithmetic Mean	37,900.400
Geometric Mean	355.915
Standard Deviation	141,438.019

Results for PARAMETER$ = E coli ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	1,370.000
Arithmetic Mean	13,307.091
Geometric Mean	1,580.824
Standard Deviation	23,518.445

Results for PARAMETER$ = Field pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	7.940
Arithmetic Mean	8.288
Geometric Mean	8.251
Standard Deviation	0.812

Results for PARAMETER$ = Field pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	8.040
Arithmetic Mean	8.126
Geometric Mean	8.109

Standard Deviation	0.555

Results for PARAMETER$ = Lab pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	7.530
Arithmetic Mean	7.550
Geometric Mean	7.543
Standard Deviation	0.327

Results for PARAMETER$ = Lab pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	7.600
Arithmetic Mean	7.662
Geometric Mean	7.660
Standard Deviation	0.183

Results for PARAMETER$ = Lead ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	0.006
Arithmetic Mean	0.010
Geometric Mean	0.006
Standard Deviation	0.013

Results for PARAMETER$ = Lead ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	0.002
Arithmetic Mean	0.005
Geometric Mean	0.004
Standard Deviation	0.004

Results for PARAMETER$ = Oil and Grease ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	0.700
Arithmetic Mean	1.883
Geometric Mean	1.300
Standard Deviation	1.777

Results for PARAMETER$ = Oil and Grease ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	1.445
Arithmetic Mean	6.846
Geometric Mean	1.813
Standard Deviation	17.384

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	364.000
Arithmetic Mean	359.800
Geometric Mean	318.770
Standard Deviation	155.390

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	428.000
Arithmetic Mean	470.364
Geometric Mean	434.757
Standard Deviation	232.043

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	3.600
Arithmetic Mean	4.705
Geometric Mean	2.526
Standard Deviation	4.427

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	2.500
Arithmetic Mean	5.236
Geometric Mean	2.948
Standard Deviation	5.975

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	0.200
Arithmetic Mean	0.204
Geometric Mean	0.124
Standard Deviation	0.166

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	0.070
Arithmetic Mean	0.233
Geometric Mean	0.089
Standard Deviation	0.454

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE

```
--------------------+--------
N of Cases          ¦      25
Median              ¦ 113.700
Arithmetic Mean     ¦ 261.934
Geometric Mean      ¦  78.192
Standard Deviation  ¦ 368.806
```

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦      11
Median              ¦  22.000
Arithmetic Mean     ¦ 172.306
Geometric Mean      ¦  39.377
Standard Deviation  ¦ 296.175
```

Results for PARAMETER$ = Total Coliforms ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')


                    ¦          VALUE
--------------------+---------------
N of Cases          ¦             25
Median              ¦    102,000.000
Arithmetic Mean     ¦  1,595,856.600
Geometric Mean      ¦     30,263.870
Standard Deviation  ¦  6,760,082.879
```

Results for PARAMETER$ = Total Coliforms ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')


                    ¦          VALUE
--------------------+---------------
N of Cases          ¦             11
Median              ¦     18,000.000
Arithmetic Mean     ¦    774,246.364
Geometric Mean      ¦     63,391.585
Standard Deviation  ¦  1,884,960.674
```

Results for PARAMETER$ = Zinc ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    25
Median              ¦ 0.037
Arithmetic Mean     ¦ 0.042
```

Geometric Mean	0.026
Standard Deviation	0.032

Results for PARAMETER$ = Zinc ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	11
Median	0.029
Arithmetic Mean	0.036
Geometric Mean	0.024
Standard Deviation	0.032

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.002
Arithmetic Mean	0.003
Geometric Mean	0.002
Standard Deviation	0.004

Results for PARAMETER$ = Arsenic ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.003
Arithmetic Mean	0.006
Geometric Mean	0.003
Standard Deviation	0.013

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	6.955
Arithmetic Mean	12.326

Geometric Mean	7.048
Standard Deviation	12.384

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	8.910
Arithmetic Mean	31.388
Geometric Mean	11.536
Standard Deviation	65.193

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	36.650
Arithmetic Mean	46.644
Geometric Mean	35.337
Standard Deviation	36.019

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	43.100
Arithmetic Mean	72.920
Geometric Mean	52.471
Standard Deviation	84.823

Results for PARAMETER$ = Chromium ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.005
Arithmetic Mean	0.008
Geometric Mean	0.005
Standard Deviation	0.010

Results for PARAMETER$ = Chromium ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.002
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.003

Results for PARAMETER$ = Copper ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.021
Arithmetic Mean	0.023
Geometric Mean	0.019
Standard Deviation	0.012

Results for PARAMETER$ = Copper ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.039
Arithmetic Mean	0.065
Geometric Mean	0.027
Standard Deviation	0.133

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.025
Arithmetic Mean	0.073
Geometric Mean	0.042
Standard Deviation	0.094

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Long

Data for the following results were selected according to

SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.075
Arithmetic Mean	0.154
Geometric Mean	0.086
Standard Deviation	0.177

Results for PARAMETER$ = E coli ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	1,165.000
Arithmetic Mean	4,501.906
Geometric Mean	591.388
Standard Deviation	9,715.172

Results for PARAMETER$ = E coli ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	2,500.000
Arithmetic Mean	30,911.025
Geometric Mean	2,612.727
Standard Deviation	82,486.639

Results for PARAMETER$ = Field pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	10
Median	7.860
Arithmetic Mean	7.749
Geometric Mean	7.744
Standard Deviation	0.287

Results for PARAMETER$ = Field pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	7.865
Arithmetic Mean	7.784
Geometric Mean	7.773
Standard Deviation	0.417

Results for PARAMETER$ = Lab pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	7.595
Arithmetic Mean	7.489
Geometric Mean	7.481
Standard Deviation	0.354

Results for PARAMETER$ = Lab pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	21
Median	7.560
Arithmetic Mean	7.417
Geometric Mean	7.403
Standard Deviation	0.462

Results for PARAMETER$ = Lead ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.004
Arithmetic Mean	0.008
Geometric Mean	0.005
Standard Deviation	0.009

Results for PARAMETER$ = Lead ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.009

Arithmetic Mean	0.025
Geometric Mean	0.007
Standard Deviation	0.077

Results for PARAMETER$ = Oil and Grease ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	1.150
Arithmetic Mean	1.963
Geometric Mean	1.414
Standard Deviation	1.745

Results for PARAMETER$ = Oil and Grease ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	21
Median	0.700
Arithmetic Mean	3.596
Geometric Mean	1.568
Standard Deviation	6.127

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	232.000
Arithmetic Mean	231.938
Geometric Mean	195.045
Standard Deviation	129.520

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	359.000
Arithmetic Mean	417.700
Geometric Mean	312.857
Standard Deviation	294.084

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	7.450
Arithmetic Mean	8.354
Geometric Mean	3.382
Standard Deviation	7.517

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	2.350
Arithmetic Mean	3.380
Geometric Mean	2.079
Standard Deviation	3.976

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.100
Arithmetic Mean	0.179
Geometric Mean	0.094
Standard Deviation	0.167

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.115
Arithmetic Mean	0.224
Geometric Mean	0.116
Standard Deviation	0.245

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	86.500
Arithmetic Mean	165.086
Geometric Mean	105.043
Standard Deviation	196.223

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	68.500
Arithmetic Mean	233.582
Geometric Mean	71.470
Standard Deviation	356.037

Results for PARAMETER$ = Total Coliforms ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	53,200.000
Arithmetic Mean	1,839,050.000
Geometric Mean	53,901.441
Standard Deviation	6,977,306.004

Results for PARAMETER$ = Total Coliforms ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	180,000.000
Arithmetic Mean	3,571,970.500
Geometric Mean	74,002.732
Standard Deviation	12,059,830.566

Results for PARAMETER$ = Zinc ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    16
Median              ¦ 0.054
Arithmetic Mean     ¦ 0.052
Geometric Mean      ¦ 0.042
Standard Deviation  ¦ 0.030
```

Results for PARAMETER$ = Zinc ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Irving')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    20
Median              ¦ 0.070
Arithmetic Mean     ¦ 0.133
Geometric Mean      ¦ 0.035
Standard Deviation  ¦ 0.308
```

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Mesquite')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    16
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.006
```

Results for PARAMETER$ = Arsenic ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Mesquite')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    20
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.006
```

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Mesquite')
```

	VALUE
N of Cases	16
Median	5.435
Arithmetic Mean	7.872
Geometric Mean	5.626
Standard Deviation	7.461

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	6.645
Arithmetic Mean	7.692
Geometric Mean	5.908
Standard Deviation	4.954

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	29.100
Arithmetic Mean	31.263
Geometric Mean	16.327
Standard Deviation	25.122

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	26.000
Arithmetic Mean	47.330
Geometric Mean	36.236
Standard Deviation	35.191

Results for PARAMETER$ = Chromium ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE

N of Cases	16
Median	0.004
Arithmetic Mean	0.005
Geometric Mean	0.004
Standard Deviation	0.004

Results for PARAMETER$ = Chromium ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	0.005
Arithmetic Mean	0.006
Geometric Mean	0.004
Standard Deviation	0.005

Results for PARAMETER$ = Copper ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	0.022
Arithmetic Mean	0.021
Geometric Mean	0.017
Standard Deviation	0.010

Results for PARAMETER$ = Copper ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	0.027
Arithmetic Mean	0.028
Geometric Mean	0.023
Standard Deviation	0.015

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	0.025
Arithmetic Mean	0.074
Geometric Mean	0.047

Standard Deviation ¦ 0.089

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	0.077
Arithmetic Mean	0.200
Geometric Mean	0.080
Standard Deviation	0.521

Results for PARAMETER$ = E coli ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	1,425.000
Arithmetic Mean	146,186.938
Geometric Mean	778.429
Standard Deviation	574,363.303

Results for PARAMETER$ = E coli ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	175.000
Arithmetic Mean	101,188.625
Geometric Mean	106.794
Standard Deviation	446,938.386

Results for PARAMETER$ = Field pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	7.930
Arithmetic Mean	8.036
Geometric Mean	8.017
Standard Deviation	0.593

Results for PARAMETER$ = Field pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	8.240
Arithmetic Mean	8.399
Geometric Mean	8.354
Standard Deviation	0.903

Results for PARAMETER$ = Lab pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	7.435
Arithmetic Mean	7.372
Geometric Mean	7.363
Standard Deviation	0.373

Results for PARAMETER$ = Lab pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	7.525
Arithmetic Mean	7.607
Geometric Mean	7.597
Standard Deviation	0.402

Results for PARAMETER$ = Lead ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	0.010
Arithmetic Mean	0.010
Geometric Mean	0.007
Standard Deviation	0.007

Results for PARAMETER$ = Lead ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	0.009
Arithmetic Mean	0.009
Geometric Mean	0.007
Standard Deviation	0.005

Results for PARAMETER$ = Oil and Grease ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	1.390
Arithmetic Mean	1.951
Geometric Mean	1.466
Standard Deviation	1.560

Results for PARAMETER$ = Oil and Grease ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	0.700
Arithmetic Mean	2.602
Geometric Mean	1.374
Standard Deviation	3.926

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	262.000
Arithmetic Mean	305.125
Geometric Mean	265.535
Standard Deviation	168.943

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE

	VALUE
N of Cases	19
Median	244.000
Arithmetic Mean	260.526
Geometric Mean	224.800
Standard Deviation	139.990

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	3.000
Arithmetic Mean	8.748
Geometric Mean	2.954
Standard Deviation	16.345

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	2.250
Arithmetic Mean	3.559
Geometric Mean	1.622
Standard Deviation	4.041

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	0.115
Arithmetic Mean	0.138
Geometric Mean	0.108
Standard Deviation	0.096

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	0.183
Arithmetic Mean	0.349

Geometric Mean	0.136
Standard Deviation	0.832

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	48.850
Arithmetic Mean	107.075
Geometric Mean	41.476
Standard Deviation	122.736

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	99.400
Arithmetic Mean	269.685
Geometric Mean	109.944
Standard Deviation	379.283

Results for PARAMETER$ = Total Coliforms ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	58,300.000
Arithmetic Mean	3,652,315.000
Geometric Mean	93,195.809
Standard Deviation	10,022,073.578

Results for PARAMETER$ = Total Coliforms ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	80,000.000
Arithmetic Mean	1,281,710.575
Geometric Mean	7,692.671
Standard Deviation	4,661,106.235

Results for PARAMETER$ = Zinc ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	16
Median	0.039
Arithmetic Mean	0.039
Geometric Mean	0.027
Standard Deviation	0.021

Results for PARAMETER$ = Zinc ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	20
Median	0.058
Arithmetic Mean	0.068
Geometric Mean	0.059
Standard Deviation	0.040

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	0.005
Arithmetic Mean	0.008
Geometric Mean	0.004
Standard Deviation	0.009

Results for PARAMETER$ = Arsenic ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	0.001
Arithmetic Mean	0.003
Geometric Mean	0.002
Standard Deviation	0.004

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	5.190
Arithmetic Mean	7.892
Geometric Mean	5.414
Standard Deviation	6.878

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	6.240
Arithmetic Mean	8.555
Geometric Mean	6.970
Standard Deviation	5.170

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	27.000
Arithmetic Mean	38.031
Geometric Mean	26.525
Standard Deviation	25.028

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	25.000
Arithmetic Mean	29.827
Geometric Mean	17.320
Standard Deviation	24.256

Results for PARAMETER$ = Chromium ADP$ = Long

Data for the following results were selected according to

```
      SELECT (CITY$ = 'NTTA')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    13
Median              ¦ 0.003
Arithmetic Mean     ¦ 0.012
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.022
```

Results for PARAMETER$ = Chromium ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.008
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.006
```

Results for PARAMETER$ = Copper ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    13
Median              ¦ 0.028
Arithmetic Mean     ¦ 0.036
Geometric Mean      ¦ 0.029
Standard Deviation  ¦ 0.022
```

Results for PARAMETER$ = Copper ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 0.032
Arithmetic Mean     ¦ 0.038
Geometric Mean      ¦ 0.030
Standard Deviation  ¦ 0.026
```

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')
```

	VALUE
N of Cases	13
Median	0.025
Arithmetic Mean	0.093
Geometric Mean	0.052
Standard Deviation	0.127

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	0.100
Arithmetic Mean	0.113
Geometric Mean	0.075
Standard Deviation	0.100

Results for PARAMETER$ = E coli ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	2,100.000
Arithmetic Mean	11,543.077
Geometric Mean	1,100.248
Standard Deviation	22,395.338

Results for PARAMETER$ = E coli ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	5,000.000
Arithmetic Mean	39,251.909
Geometric Mean	4,399.511
Standard Deviation	66,158.534

Results for PARAMETER$ = Field pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	12
Median	8.170

Arithmetic Mean	8.229
Geometric Mean	8.186
Standard Deviation	0.862

Results for PARAMETER$ = Field pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	8.100
Arithmetic Mean	8.265
Geometric Mean	8.199
Standard Deviation	1.105

Results for PARAMETER$ = Lab pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	7.570
Arithmetic Mean	7.652
Geometric Mean	7.646
Standard Deviation	0.315

Results for PARAMETER$ = Lab pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	7.650
Arithmetic Mean	7.670
Geometric Mean	7.662
Standard Deviation	0.380

Results for PARAMETER$ = Lead ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	0.005
Arithmetic Mean	0.011
Geometric Mean	0.006
Standard Deviation	0.013

Results for PARAMETER$ = Lead ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	0.012
Arithmetic Mean	0.037
Geometric Mean	0.013
Standard Deviation	0.067

Results for PARAMETER$ = Oil and Grease ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	0.700
Arithmetic Mean	1.684
Geometric Mean	1.196
Standard Deviation	1.653

Results for PARAMETER$ = Oil and Grease ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	10
Median	0.700
Arithmetic Mean	5.190
Geometric Mean	1.576
Standard Deviation	10.175

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	256.000
Arithmetic Mean	370.538
Geometric Mean	291.007
Standard Deviation	242.457

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	254.000
Arithmetic Mean	270.545
Geometric Mean	213.179
Standard Deviation	190.211

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	2.200
Arithmetic Mean	2.033
Geometric Mean	1.132
Standard Deviation	1.163

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	3.900
Arithmetic Mean	4.695
Geometric Mean	1.592
Standard Deviation	4.967

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	0.230
Arithmetic Mean	0.360
Geometric Mean	0.176
Standard Deviation	0.406

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	0.220
Arithmetic Mean	0.299
Geometric Mean	0.198
Standard Deviation	0.249

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	70.000
Arithmetic Mean	136.831
Geometric Mean	62.847
Standard Deviation	167.819

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	104.000
Arithmetic Mean	187.988
Geometric Mean	86.796
Standard Deviation	207.260

Results for PARAMETER$ = Total Coliforms ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	18,900.000
Arithmetic Mean	2,305,285.385
Geometric Mean	20,365.812
Standard Deviation	6,340,456.876

Results for PARAMETER$ = Total Coliforms ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE

N of Cases	11
Median	120,000.000
Arithmetic Mean	5,994,807.455
Geometric Mean	112,932.564
Standard Deviation	18,911,695.330

Results for PARAMETER$ = Zinc ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	0.078
Arithmetic Mean	0.082
Geometric Mean	0.051
Standard Deviation	0.066

Results for PARAMETER$ = Zinc ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	0.059
Arithmetic Mean	0.127
Geometric Mean	0.072
Standard Deviation	0.208

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	0.002
Arithmetic Mean	0.004
Geometric Mean	0.002
Standard Deviation	0.004

Results for PARAMETER$ = Arsenic ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE

```
N of Cases          ¦    19
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.003
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.002
```

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    17
Median              ¦ 5.580
Arithmetic Mean     ¦ 7.035
Geometric Mean      ¦ 4.390
Standard Deviation  ¦ 7.865
```

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    19
Median              ¦ 5.480
Arithmetic Mean     ¦ 7.515
Geometric Mean      ¦ 5.953
Standard Deviation  ¦ 5.666
```

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     17
Median              ¦ 23.600
Arithmetic Mean     ¦ 25.845
Geometric Mean      ¦ 16.087
Standard Deviation  ¦ 20.610
```

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     19
Median              ¦ 30.000
Arithmetic Mean     ¦ 36.511
Geometric Mean      ¦ 24.176
```

Standard Deviation ¦ 28.382

Results for PARAMETER$ = Chromium ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	0.004
Arithmetic Mean	0.006
Geometric Mean	0.004
Standard Deviation	0.007

Results for PARAMETER$ = Chromium ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	19
Median	0.003
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.004

Results for PARAMETER$ = Copper ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	0.022
Arithmetic Mean	0.027
Geometric Mean	0.018
Standard Deviation	0.031

Results for PARAMETER$ = Copper ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	19
Median	0.035
Arithmetic Mean	0.030
Geometric Mean	0.024
Standard Deviation	0.016

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	0.025
Arithmetic Mean	0.086
Geometric Mean	0.049
Standard Deviation	0.114

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	19
Median	0.025
Arithmetic Mean	0.048
Geometric Mean	0.039
Standard Deviation	0.038

Results for PARAMETER$ = E coli ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	4,000.000
Arithmetic Mean	26,717.382
Geometric Mean	1,668.262
Standard Deviation	86,243.332

Results for PARAMETER$ = E coli ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	19
Median	800.000
Arithmetic Mean	4,036.895
Geometric Mean	357.885
Standard Deviation	7,609.199

Results for PARAMETER$ = Field pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	8.090
Arithmetic Mean	8.045
Geometric Mean	8.011
Standard Deviation	0.744

Results for PARAMETER$ = Field pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	7.960
Arithmetic Mean	7.801
Geometric Mean	7.753
Standard Deviation	0.882

Results for PARAMETER$ = Lab pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	7.620
Arithmetic Mean	7.559
Geometric Mean	7.546
Standard Deviation	0.468

Results for PARAMETER$ = Lab pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	19
Median	7.580
Arithmetic Mean	7.603
Geometric Mean	7.597
Standard Deviation	0.295

Results for PARAMETER$ = Lead ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE

```
--------------------+------
N of Cases          ¦    17
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.011
Geometric Mean      ¦ 0.006
Standard Deviation  ¦ 0.013
```

Results for PARAMETER$ = Lead ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    19
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.004
```

Results for PARAMETER$ = Oil and Grease ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    16
Median              ¦ 1.800
Arithmetic Mean     ¦ 3.582
Geometric Mean      ¦ 2.361
Standard Deviation  ¦ 3.279
```

Results for PARAMETER$ = Oil and Grease ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    19
Median              ¦ 0.700
Arithmetic Mean     ¦ 2.821
Geometric Mean      ¦ 1.208
Standard Deviation  ¦ 6.004
```

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦      17
Median              ¦ 340.000
Arithmetic Mean     ¦ 406.529
```

```
Geometric Mean     ¦ 362.637
Standard Deviation ¦ 204.066
```

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                   ¦   VALUE
-------------------+--------
N of Cases         ¦      19
Median             ¦ 302.000
Arithmetic Mean    ¦ 260.632
Geometric Mean     ¦ 214.264
Standard Deviation ¦ 135.596
```

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    17
Median             ¦ 1.400
Arithmetic Mean    ¦ 2.465
Geometric Mean     ¦ 1.234
Standard Deviation ¦ 2.426
```

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Long

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    19
Median             ¦ 1.930
Arithmetic Mean    ¦ 1.873
Geometric Mean     ¦ 1.104
Standard Deviation ¦ 1.099
```

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Short

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    17
Median             ¦ 0.089
Arithmetic Mean    ¦ 0.225
Geometric Mean     ¦ 0.114
Standard Deviation ¦ 0.364
```

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	19
Median	0.062
Arithmetic Mean	0.144
Geometric Mean	0.083
Standard Deviation	0.153

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	26.000
Arithmetic Mean	330.323
Geometric Mean	41.270
Standard Deviation	687.458

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	19
Median	114.000
Arithmetic Mean	147.168
Geometric Mean	94.122
Standard Deviation	137.097

Results for PARAMETER$ = Total Coliforms ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	80,000.000
Arithmetic Mean	573,562.353
Geometric Mean	56,212.505
Standard Deviation	1,468,572.328

Results for PARAMETER$ = Total Coliforms ADP$ = Long

Data for the following results were selected according to

```
      SELECT (CITY$ = 'Plano')
```

	VALUE
N of Cases	19
Median	50,700.000
Arithmetic Mean	4,381,790.000
Geometric Mean	38,366.803
Standard Deviation	17,126,474.975

Results for PARAMETER$ = Zinc ADP$ = Short

Data for the following results were selected according to
```
      SELECT (CITY$ = 'Plano')
```

	VALUE
N of Cases	17
Median	0.035
Arithmetic Mean	0.043
Geometric Mean	0.034
Standard Deviation	0.033

Results for PARAMETER$ = Zinc ADP$ = Long

Data for the following results were selected according to
```
      SELECT (CITY$ = 'Plano')
```

	VALUE
N of Cases	19
Median	0.039
Arithmetic Mean	0.052
Geometric Mean	0.042
Standard Deviation	0.035

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic ADP$ = Short

Data for the following results were selected according to
```
      SELECT (CITY$ = 'TxDOT')
```

	VALUE
N of Cases	12
Median	0.002
Arithmetic Mean	0.003
Geometric Mean	0.002
Standard Deviation	0.004

Results for PARAMETER$ = Arsenic ADP$ = Long

Data for the following results were selected according to

SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.005
Arithmetic Mean	0.006
Geometric Mean	0.004
Standard Deviation	0.005

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	7.815
Arithmetic Mean	9.738
Geometric Mean	7.746
Standard Deviation	6.276

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	6.150
Arithmetic Mean	9.606
Geometric Mean	7.356
Standard Deviation	6.577

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	37.650
Arithmetic Mean	112.242
Geometric Mean	30.576
Standard Deviation	250.184

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	44.950
Arithmetic Mean	45.758
Geometric Mean	38.212
Standard Deviation	25.643

Results for PARAMETER$ = Chromium ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.003
Arithmetic Mean	0.006
Geometric Mean	0.004
Standard Deviation	0.006

Results for PARAMETER$ = Chromium ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.005
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.002

Results for PARAMETER$ = Copper ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.026
Arithmetic Mean	0.029
Geometric Mean	0.022
Standard Deviation	0.018

Results for PARAMETER$ = Copper ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.050

Arithmetic Mean	0.039
Geometric Mean	0.028
Standard Deviation	0.022

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.062
Arithmetic Mean	0.078
Geometric Mean	0.063
Standard Deviation	0.051

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.050
Arithmetic Mean	0.050
Geometric Mean	0.043
Standard Deviation	0.029

Results for PARAMETER$ = E coli ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	6,650.000
Arithmetic Mean	8,985.000
Geometric Mean	1,749.174
Standard Deviation	12,503.372

Results for PARAMETER$ = E coli ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	1,000.000
Arithmetic Mean	4,211.833
Geometric Mean	163.794
Standard Deviation	6,364.112

Results for PARAMETER$ = Field pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	8.000
Arithmetic Mean	7.903
Geometric Mean	7.858
Standard Deviation	0.842

Results for PARAMETER$ = Field pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	7.850
Arithmetic Mean	7.891
Geometric Mean	7.865
Standard Deviation	0.683

Results for PARAMETER$ = Lab pH ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	7.560
Arithmetic Mean	7.482
Geometric Mean	7.474
Standard Deviation	0.366

Results for PARAMETER$ = Lab pH ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	7.535
Arithmetic Mean	7.581
Geometric Mean	7.579
Standard Deviation	0.192

Results for PARAMETER$ = Lead ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.007
Arithmetic Mean	0.013
Geometric Mean	0.008
Standard Deviation	0.012

Results for PARAMETER$ = Lead ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.005
Arithmetic Mean	0.010
Geometric Mean	0.007
Standard Deviation	0.009

Results for PARAMETER$ = Oil and Grease ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	11
Median	0.700
Arithmetic Mean	3.305
Geometric Mean	1.585
Standard Deviation	4.461

Results for PARAMETER$ = Oil and Grease ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	1.045
Arithmetic Mean	2.146
Geometric Mean	1.476
Standard Deviation	1.925

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	294.000
Arithmetic Mean	284.167
Geometric Mean	236.136
Standard Deviation	145.689

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	226.000
Arithmetic Mean	250.417
Geometric Mean	232.513
Standard Deviation	107.915

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	3.215
Arithmetic Mean	4.733
Geometric Mean	1.561
Standard Deviation	6.020

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	1.350
Arithmetic Mean	1.303
Geometric Mean	0.660
Standard Deviation	0.970

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE

	VALUE
N of Cases	12
Median	0.170
Arithmetic Mean	0.221
Geometric Mean	0.176
Standard Deviation	0.141

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.050
Arithmetic Mean	0.094
Geometric Mean	0.062
Standard Deviation	0.101

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	58.350
Arithmetic Mean	105.242
Geometric Mean	65.772
Standard Deviation	102.339

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	104.650
Arithmetic Mean	171.581
Geometric Mean	88.967
Standard Deviation	197.566

Results for PARAMETER$ = Total Coliforms ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	88,000.000
Arithmetic Mean	265,051.000
Geometric Mean	61,766.946

Standard Deviation	362,480.704

Results for PARAMETER$ = Total Coliforms ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	146,000.000
Arithmetic Mean	510,441.667
Geometric Mean	50,014.196
Standard Deviation	956,665.872

Results for PARAMETER$ = Zinc ADP$ = Short

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.050
Arithmetic Mean	0.061
Geometric Mean	0.050
Standard Deviation	0.041

Results for PARAMETER$ = Zinc ADP$ = Long

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	12
Median	0.064
Arithmetic Mean	0.077
Geometric Mean	0.059
Standard Deviation	0.071

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	183
Median	0.003
Arithmetic Mean	0.005
Geometric Mean	0.003

Standard Deviation	0.007

Results for PARAMETER$ = Arsenic ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	0.002
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.005

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	183
Median	6.820
Arithmetic Mean	12.281
Geometric Mean	6.706
Standard Deviation	24.835

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	5.620
Arithmetic Mean	8.801
Geometric Mean	5.699
Standard Deviation	8.446

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	183
Median	37.200
Arithmetic Mean	50.486
Geometric Mean	32.177
Standard Deviation	54.510

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	27.100
Arithmetic Mean	47.022
Geometric Mean	21.537
Standard Deviation	96.205

Results for PARAMETER$ = Chromium ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	183
Median	0.003
Arithmetic Mean	0.005
Geometric Mean	0.003
Standard Deviation	0.007

Results for PARAMETER$ = Chromium ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	0.004
Arithmetic Mean	0.007
Geometric Mean	0.005
Standard Deviation	0.008

Results for PARAMETER$ = Copper ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	183
Median	0.024
Arithmetic Mean	0.030
Geometric Mean	0.018
Standard Deviation	0.048

Results for PARAMETER$ = Copper ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	0.022
Arithmetic Mean	0.024
Geometric Mean	0.017
Standard Deviation	0.020

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	182
Median	0.060
Arithmetic Mean	0.114
Geometric Mean	0.063
Standard Deviation	0.206

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	0.025
Arithmetic Mean	0.074
Geometric Mean	0.046
Standard Deviation	0.085

Results for PARAMETER$ = E coli ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	182
Median	1,265.000
Arithmetic Mean	34,158.761
Geometric Mean	810.174
Standard Deviation	166,558.880

Results for PARAMETER$ = E coli ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE

N of Cases	99
Median	1,640.000
Arithmetic Mean	36,583.601
Geometric Mean	1,068.877
Standard Deviation	233,941.904

Results for PARAMETER$ = Field pH ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	168
Median	7.840
Arithmetic Mean	7.956
Geometric Mean	7.927
Standard Deviation	0.695

Results for PARAMETER$ = Field pH ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	90
Median	7.950
Arithmetic Mean	7.985
Geometric Mean	7.956
Standard Deviation	0.687

Results for PARAMETER$ = Lab pH ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	149
Median	7.550
Arithmetic Mean	7.549
Geometric Mean	7.540
Standard Deviation	0.356

Results for PARAMETER$ = Lab pH ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	92
Median	7.565
Arithmetic Mean	7.531

Geometric Mean	7.522
Standard Deviation	0.374

Results for PARAMETER$ = Lead ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	183
Median	0.006
Arithmetic Mean	0.012
Geometric Mean	0.006
Standard Deviation	0.027

Results for PARAMETER$ = Lead ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	0.006
Arithmetic Mean	0.013
Geometric Mean	0.006
Standard Deviation	0.027

Results for PARAMETER$ = Oil and Grease ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	183
Median	0.700
Arithmetic Mean	2.662
Geometric Mean	1.461
Standard Deviation	4.423

Results for PARAMETER$ = Oil and Grease ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	98
Median	1.390
Arithmetic Mean	3.166
Geometric Mean	1.610
Standard Deviation	6.728

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	182
Median	270.000
Arithmetic Mean	310.159
Geometric Mean	246.366
Standard Deviation	214.389

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	294.000
Arithmetic Mean	344.578
Geometric Mean	282.850
Standard Deviation	236.160

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	180
Median	1.900
Arithmetic Mean	2.744
Geometric Mean	1.273
Standard Deviation	4.064

Results for PARAMETER$ = NITROGEN, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	2.770
Arithmetic Mean	7.022
Geometric Mean	2.378
Standard Deviation	12.488

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Long

Data for the following results were selected according to

SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	182
Median	0.170
Arithmetic Mean	0.254
Geometric Mean	0.132
Standard Deviation	0.380

Results for PARAMETER$ = PHOSPHORUS, TOTAL ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	0.138
Arithmetic Mean	0.219
Geometric Mean	0.119
Standard Deviation	0.317

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	183
Median	81.330
Arithmetic Mean	198.306
Geometric Mean	70.707
Standard Deviation	290.527

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	72.585
Arithmetic Mean	220.524
Geometric Mean	64.040
Standard Deviation	398.037

Results for PARAMETER$ = Total Coliforms ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	182
Median	92,550.000
Arithmetic Mean	1,544,987.920
Geometric Mean	39,073.234
Standard Deviation	7,601,022.133

Results for PARAMETER$ = Total Coliforms ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	99
Median	57,000.000
Arithmetic Mean	1,781,088.727
Geometric Mean	55,955.787
Standard Deviation	7,984,022.785

Results for PARAMETER$ = Zinc ADP$ = Long

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	183
Median	0.045
Arithmetic Mean	0.065
Geometric Mean	0.037
Standard Deviation	0.112

Results for PARAMETER$ = Zinc ADP$ = Short

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	102
Median	0.041
Arithmetic Mean	0.056
Geometric Mean	0.036
Standard Deviation	0.078

Appendix J

Storm Size Group Summary Statistics

Results for PARAMETER$ = Arsenic STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	0.004
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.003

Results for PARAMETER$ = Arsenic STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	0.002
Arithmetic Mean	0.004
Geometric Mean	0.002
Standard Deviation	0.004

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	10.600
Arithmetic Mean	11.818
Geometric Mean	8.942
Standard Deviation	7.987

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	10.200
Arithmetic Mean	12.631
Geometric Mean	9.343
Standard Deviation	9.963

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to

```
      SELECT (CITY$ = 'Arlington')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     15
Median              ¦ 48.000
Arithmetic Mean     ¦ 52.327
Geometric Mean      ¦ 41.092
Standard Deviation  ¦ 32.590
```

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Arlington')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     21
Median              ¦ 37.800
Arithmetic Mean     ¦ 52.471
Geometric Mean      ¦ 26.956
Standard Deviation  ¦ 64.699
```

Results for PARAMETER$ = Chromium STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Arlington')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    15
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.006
```

Results for PARAMETER$ = Chromium STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Arlington')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    21
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.005
```

Results for PARAMETER$ = Copper STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Arlington')
```

	VALUE
N of Cases	15
Median	0.048
Arithmetic Mean	0.044
Geometric Mean	0.031
Standard Deviation	0.031

Results for PARAMETER$ = Copper STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	0.023
Arithmetic Mean	0.023
Geometric Mean	0.019
Standard Deviation	0.011

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	0.050
Arithmetic Mean	0.044
Geometric Mean	0.040
Standard Deviation	0.023

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	0.025
Arithmetic Mean	0.049
Geometric Mean	0.040
Standard Deviation	0.037

Results for PARAMETER$ = E coli STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	2,200.000

Arithmetic Mean	12,790.333
Geometric Mean	1,583.734
Standard Deviation	28,416.756

Results for PARAMETER$ = E coli STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	1,330.000
Arithmetic Mean	46,487.500
Geometric Mean	1,117.349
Standard Deviation	122,618.859

Results for PARAMETER$ = Field pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	11
Median	7.960
Arithmetic Mean	8.098
Geometric Mean	8.093
Standard Deviation	0.294

Results for PARAMETER$ = Field pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	18
Median	7.635
Arithmetic Mean	7.623
Geometric Mean	7.610
Standard Deviation	0.458

Results for PARAMETER$ = Lab pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	7.510
Arithmetic Mean	7.497
Geometric Mean	7.489
Standard Deviation	0.357

Results for PARAMETER$ = Lab pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	7.470
Arithmetic Mean	7.448
Geometric Mean	7.437
Standard Deviation	0.399

Results for PARAMETER$ = Lead STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	0.010
Arithmetic Mean	0.010
Geometric Mean	0.008
Standard Deviation	0.006

Results for PARAMETER$ = Lead STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	0.002
Arithmetic Mean	0.005
Geometric Mean	0.004
Standard Deviation	0.006

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	1.390
Arithmetic Mean	2.762
Geometric Mean	1.752
Standard Deviation	2.796

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	20
Median	2.000
Arithmetic Mean	2.658
Geometric Mean	1.788
Standard Deviation	2.664

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	156.000
Arithmetic Mean	189.600
Geometric Mean	165.562
Standard Deviation	111.473

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	360.000
Arithmetic Mean	485.571
Geometric Mean	384.393
Standard Deviation	371.921

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	1.500
Arithmetic Mean	2.294
Geometric Mean	0.768
Standard Deviation	3.239

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	3.000
Arithmetic Mean	10.848
Geometric Mean	1.778
Standard Deviation	21.172

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	0.139
Arithmetic Mean	0.142
Geometric Mean	0.095
Standard Deviation	0.113

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	0.110
Arithmetic Mean	0.125
Geometric Mean	0.090
Standard Deviation	0.100

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	200.000
Arithmetic Mean	288.224
Geometric Mean	169.944
Standard Deviation	275.538

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE

	VALUE
N of Cases	21
Median	34.000
Arithmetic Mean	199.541
Geometric Mean	55.802
Standard Deviation	332.402

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	140,000.000
Arithmetic Mean	576,033.667
Geometric Mean	62,858.142
Standard Deviation	893,965.484

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	67,000.000
Arithmetic Mean	529,797.762
Geometric Mean	52,768.112
Standard Deviation	1,307,200.396

Results for PARAMETER$ = Zinc STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	15
Median	0.066
Arithmetic Mean	0.071
Geometric Mean	0.066
Standard Deviation	0.029

Results for PARAMETER$ = Zinc STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Arlington')

	VALUE
N of Cases	21
Median	0.031
Arithmetic Mean	0.045
Geometric Mean	0.024

```
Standard Deviation ¦ 0.046
```

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')
```

	VALUE
N of Cases	30
Median	0.004
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.003

Results for PARAMETER$ = Arsenic STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')
```

	VALUE
N of Cases	16
Median	0.005
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.002

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')
```

	VALUE
N of Cases	30
Median	8.715
Arithmetic Mean	15.434
Geometric Mean	9.337
Standard Deviation	20.281

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')
```

	VALUE
N of Cases	16
Median	5.160
Arithmetic Mean	11.722
Geometric Mean	6.054

Standard Deviation ¦ 18.337

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	30
Median	43.000
Arithmetic Mean	66.450
Geometric Mean	35.212
Standard Deviation	72.500

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	16
Median	23.500
Arithmetic Mean	44.281
Geometric Mean	22.390
Standard Deviation	71.175

Results for PARAMETER$ = Chromium STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	30
Median	0.004
Arithmetic Mean	0.009
Geometric Mean	0.005
Standard Deviation	0.012

Results for PARAMETER$ = Chromium STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	16
Median	0.004
Arithmetic Mean	0.005
Geometric Mean	0.004
Standard Deviation	0.003

Results for PARAMETER$ = Copper STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	30
Median	0.010
Arithmetic Mean	0.016
Geometric Mean	0.009
Standard Deviation	0.018

Results for PARAMETER$ = Copper STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	16
Median	0.005
Arithmetic Mean	0.010
Geometric Mean	0.007
Standard Deviation	0.011

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	30
Median	0.102
Arithmetic Mean	0.151
Geometric Mean	0.084
Standard Deviation	0.144

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	15
Median	0.055
Arithmetic Mean	0.109
Geometric Mean	0.047
Standard Deviation	0.122

Results for PARAMETER$ = E coli STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	26
Median	5,660.500
Arithmetic Mean	41,123.846
Geometric Mean	4,777.639
Standard Deviation	77,435.611

Results for PARAMETER$ = E coli STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	16
Median	586.000
Arithmetic Mean	9,376.344
Geometric Mean	610.347
Standard Deviation	19,421.504

Results for PARAMETER$ = Field pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	26
Median	7.650
Arithmetic Mean	7.680
Geometric Mean	7.676
Standard Deviation	0.235

Results for PARAMETER$ = Field pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	11
Median	7.700
Arithmetic Mean	7.691
Geometric Mean	7.686
Standard Deviation	0.300

Results for PARAMETER$ = Lab pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE

```
--------------------+------
N of Cases          ¦     4
Median              ¦ 7.905
Arithmetic Mean     ¦ 7.835
Geometric Mean      ¦ 7.834
Standard Deviation  ¦ 0.157
```

Results for PARAMETER$ = Lab pH STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     5
Median              ¦ 7.750
Arithmetic Mean     ¦ 7.612
Geometric Mean      ¦ 7.608
Standard Deviation  ¦ 0.285
```

Results for PARAMETER$ = Lead STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    30
Median              ¦ 0.012
Arithmetic Mean     ¦ 0.021
Geometric Mean      ¦ 0.010
Standard Deviation  ¦ 0.025
```

Results for PARAMETER$ = Lead STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    16
Median              ¦ 0.006
Arithmetic Mean     ¦ 0.008
Geometric Mean      ¦ 0.006
Standard Deviation  ¦ 0.006
```

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    30
Median              ¦ 2.350
Arithmetic Mean     ¦ 1.801
```

```
Geometric Mean     ¦ 1.337
Standard Deviation ¦ 1.278
```

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    16
Median             ¦ 2.175
Arithmetic Mean    ¦ 1.609
Geometric Mean     ¦ 1.257
Standard Deviation ¦ 0.989
```

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                   ¦   VALUE
-------------------+--------
N of Cases         ¦      30
Median             ¦ 211.000
Arithmetic Mean    ¦ 235.400
Geometric Mean     ¦ 179.495
Standard Deviation ¦ 157.696
```

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                   ¦   VALUE
-------------------+--------
N of Cases         ¦      16
Median             ¦ 259.000
Arithmetic Mean    ¦ 290.437
Geometric Mean     ¦ 261.050
Standard Deviation ¦ 139.968
```

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Dallas')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    27
Median             ¦ 1.900
Arithmetic Mean    ¦ 3.630
Geometric Mean     ¦ 1.869
Standard Deviation ¦ 7.565
```

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	16
Median	1.220
Arithmetic Mean	1.584
Geometric Mean	1.289
Standard Deviation	1.149

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	30
Median	0.430
Arithmetic Mean	0.561
Geometric Mean	0.385
Standard Deviation	0.510

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	15
Median	0.156
Arithmetic Mean	0.220
Geometric Mean	0.159
Standard Deviation	0.181

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	30
Median	99.000
Arithmetic Mean	342.917
Geometric Mean	128.681
Standard Deviation	468.809

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to

SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	16
Median	34.500
Arithmetic Mean	52.281
Geometric Mean	24.635
Standard Deviation	67.713

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	26
Median	80,560.000
Arithmetic Mean	154,373.077
Geometric Mean	74,525.939
Standard Deviation	200,040.508

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	16
Median	45,000.000
Arithmetic Mean	111,436.063
Geometric Mean	38,539.756
Standard Deviation	110,012.134

Results for PARAMETER$ = Zinc STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

	VALUE
N of Cases	30
Median	0.034
Arithmetic Mean	0.064
Geometric Mean	0.039
Standard Deviation	0.062

Results for PARAMETER$ = Zinc STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Dallas')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    16
Median              ¦ 0.024
Arithmetic Mean     ¦ 0.039
Geometric Mean      ¦ 0.025
Standard Deviation  ¦ 0.039
```

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     7
Median              ¦ 0.013
Arithmetic Mean     ¦ 0.009
Geometric Mean      ¦ 0.005
Standard Deviation  ¦ 0.009
```

Results for PARAMETER$ = Arsenic STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     4
Median              ¦ 0.003
Arithmetic Mean     ¦ 0.004
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.005
```

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     7
Median              ¦ 5.000
Arithmetic Mean     ¦ 3.929
Geometric Mean      ¦ 2.792
Standard Deviation  ¦ 2.886
```

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                   ¦ VALUE
-------------------+------
N of Cases         ¦     4
Median             ¦ 0.613
Arithmetic Mean    ¦ 0.862
Geometric Mean     ¦ 0.564
Standard Deviation ¦ 0.842
```

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                   ¦  VALUE
-------------------+-------
N of Cases         ¦      7
Median             ¦ 48.300
Arithmetic Mean    ¦ 84.671
Geometric Mean     ¦ 39.303
Standard Deviation ¦ 88.916
```

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                   ¦  VALUE
-------------------+-------
N of Cases         ¦      4
Median             ¦ 17.150
Arithmetic Mean    ¦ 19.825
Geometric Mean     ¦ 18.674
Standard Deviation ¦  8.422
```

Results for PARAMETER$ = Chromium STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                   ¦ VALUE
-------------------+------
N of Cases         ¦     7
Median             ¦ 0.003
Arithmetic Mean    ¦ 0.002
Geometric Mean     ¦ 0.002
Standard Deviation ¦ 0.001
```

Results for PARAMETER$ = Chromium STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')
```

```
                   ¦ VALUE
-------------------+------
N of Cases         ¦     4
Median             ¦ 0.001
```

```
Arithmetic Mean    ¦ 0.004
Geometric Mean     ¦ 0.002
Standard Deviation ¦ 0.006
```

Results for PARAMETER$ = Copper STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     7
Median             ¦ 0.003
Arithmetic Mean    ¦ 0.005
Geometric Mean     ¦ 0.004
Standard Deviation ¦ 0.004
```

Results for PARAMETER$ = Copper STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     4
Median             ¦ 0.007
Arithmetic Mean    ¦ 0.007
Geometric Mean     ¦ 0.006
Standard Deviation ¦ 0.003
```

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     7
Median             ¦ 0.110
Arithmetic Mean    ¦ 0.132
Geometric Mean     ¦ 0.110
Standard Deviation ¦ 0.085
```

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')


                   ¦ VALUE
-------------------+------
N of Cases         ¦     4
Median             ¦ 0.024
Arithmetic Mean    ¦ 0.041
Geometric Mean     ¦ 0.031
Standard Deviation ¦ 0.040
```

Results for PARAMETER$ = E coli STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	7
Median	1,986.000
Arithmetic Mean	4,668.286
Geometric Mean	1,392.451
Standard Deviation	6,350.169

Results for PARAMETER$ = E coli STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	4
Median	84.000
Arithmetic Mean	166.750
Geometric Mean	105.137
Standard Deviation	197.498

Results for PARAMETER$ = Field pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	7
Median	7.780
Arithmetic Mean	7.751
Geometric Mean	7.743
Standard Deviation	0.374

Results for PARAMETER$ = Field pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	1
Median	7.700
Arithmetic Mean	7.700
Geometric Mean	7.700
Standard Deviation	.

Results for PARAMETER$ = Lab pH STM_SIZE$ = Large

Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')

*** ERROR *** : No cases were found to process.

Results for PARAMETER$ = Lab pH STM_SIZE$ = Small

Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	3
Median	7.830
Arithmetic Mean	7.710
Geometric Mean	7.706
Standard Deviation	0.289

Results for PARAMETER$ = Lead STM_SIZE$ = Large

Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	7
Median	0.013
Arithmetic Mean	0.012
Geometric Mean	0.010
Standard Deviation	0.007

Results for PARAMETER$ = Lead STM_SIZE$ = Small

Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	4
Median	0.002
Arithmetic Mean	0.008
Geometric Mean	0.003
Standard Deviation	0.012

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Large

Data for the following results were selected according to
      SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	7
Median	2.650
Arithmetic Mean	9.036

Geometric Mean	3.705
Standard Deviation	13.387

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	4
Median	1.513
Arithmetic Mean	1.813
Geometric Mean	1.156
Standard Deviation	1.675

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	7
Median	330.000
Arithmetic Mean	325.571
Geometric Mean	316.886
Standard Deviation	80.008

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	4
Median	388.000
Arithmetic Mean	607.500
Geometric Mean	319.545
Standard Deviation	689.354

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	7
Median	1.010
Arithmetic Mean	0.969
Geometric Mean	0.617
Standard Deviation	0.746

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	4
Median	0.540
Arithmetic Mean	0.540
Geometric Mean	0.515
Standard Deviation	0.184

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	7
Median	0.170
Arithmetic Mean	0.156
Geometric Mean	0.129
Standard Deviation	0.086

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	4
Median	0.032
Arithmetic Mean	0.030
Geometric Mean	0.023
Standard Deviation	0.019

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	7
Median	34.000
Arithmetic Mean	90.429
Geometric Mean	15.266
Standard Deviation	182.553

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to

SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	4
Median	3.435
Arithmetic Mean	17.218
Geometric Mean	5.174
Standard Deviation	29.212

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	7
Median	57,940.000
Arithmetic Mean	51,406.857
Geometric Mean	40,290.821
Standard Deviation	32,616.365

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	4
Median	1,700.000
Arithmetic Mean	5,535.500
Geometric Mean	2,879.626
Standard Deviation	7,866.964

Results for PARAMETER$ = Zinc STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

	VALUE
N of Cases	7
Median	0.010
Arithmetic Mean	0.021
Geometric Mean	0.012
Standard Deviation	0.024

Results for PARAMETER$ = Zinc STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Fort Worth')

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     4
Median              ¦ 0.022
Arithmetic Mean     ¦ 0.023
Geometric Mean      ¦ 0.020
Standard Deviation  ¦ 0.012
```

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    10
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.006
```

Results for PARAMETER$ = Arsenic STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    26
Median              ¦ 0.001
Arithmetic Mean     ¦ 0.006
Geometric Mean      ¦ 0.002
Standard Deviation  ¦ 0.010
```

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    10
Median              ¦ 6.040
Arithmetic Mean     ¦ 6.531
Geometric Mean      ¦ 4.481
Standard Deviation  ¦ 3.837
```

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Garland')
```

	VALUE
N of Cases	26
Median	4.205
Arithmetic Mean	6.144
Geometric Mean	4.000
Standard Deviation	5.894

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	32.150
Arithmetic Mean	33.980
Geometric Mean	29.721
Standard Deviation	17.559

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	24.300
Arithmetic Mean	35.825
Geometric Mean	18.822
Standard Deviation	52.134

Results for PARAMETER$ = Chromium STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	0.004
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.002

Results for PARAMETER$ = Chromium STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	0.004

Arithmetic Mean	0.005
Geometric Mean	0.003
Standard Deviation	0.003

Results for PARAMETER$ = Copper STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	0.028
Arithmetic Mean	0.030
Geometric Mean	0.028
Standard Deviation	0.013

Results for PARAMETER$ = Copper STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	0.021
Arithmetic Mean	0.021
Geometric Mean	0.017
Standard Deviation	0.013

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	0.095
Arithmetic Mean	0.089
Geometric Mean	0.067
Standard Deviation	0.060

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	0.025
Arithmetic Mean	0.105
Geometric Mean	0.056
Standard Deviation	0.137

Results for PARAMETER$ = E coli STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	605.000
Arithmetic Mean	1,612.550
Geometric Mean	118.737
Standard Deviation	2,523.864

Results for PARAMETER$ = E coli STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	682.000
Arithmetic Mean	41,452.404
Geometric Mean	1,020.172
Standard Deviation	138,382.656

Results for PARAMETER$ = Field pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	7.990
Arithmetic Mean	8.349
Geometric Mean	8.314
Standard Deviation	0.807

Results for PARAMETER$ = Field pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	7.950
Arithmetic Mean	8.197
Geometric Mean	8.167
Standard Deviation	0.723

Results for PARAMETER$ = Lab pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	7.600
Arithmetic Mean	7.636
Geometric Mean	7.633
Standard Deviation	0.221

Results for PARAMETER$ = Lab pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	7.600
Arithmetic Mean	7.565
Geometric Mean	7.558
Standard Deviation	0.318

Results for PARAMETER$ = Lead STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	0.005
Arithmetic Mean	0.007
Geometric Mean	0.005
Standard Deviation	0.006

Results for PARAMETER$ = Lead STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	0.005
Arithmetic Mean	0.009
Geometric Mean	0.005
Standard Deviation	0.013

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	0.700
Arithmetic Mean	1.226
Geometric Mean	0.911
Standard Deviation	1.477

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	25
Median	1.600
Arithmetic Mean	4.131
Geometric Mean	1.712
Standard Deviation	10.977

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	244.000
Arithmetic Mean	250.500
Geometric Mean	217.141
Standard Deviation	118.911

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	421.000
Arithmetic Mean	448.615
Geometric Mean	421.331
Standard Deviation	178.952

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE

	VALUE
N of Cases	10
Median	2.595
Arithmetic Mean	2.590
Geometric Mean	2.182
Standard Deviation	1.446

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	3.800
Arithmetic Mean	5.743
Geometric Mean	2.853
Standard Deviation	5.437

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	0.200
Arithmetic Mean	0.202
Geometric Mean	0.149
Standard Deviation	0.122

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	0.095
Arithmetic Mean	0.217
Geometric Mean	0.101
Standard Deviation	0.322

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	152.000
Arithmetic Mean	277.920
Geometric Mean	141.636

Standard Deviation ¦ 263.795

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	30.750
Arithmetic Mean	217.866
Geometric Mean	46.547
Standard Deviation	376.863

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	151,000.000
Arithmetic Mean	241,411.500
Geometric Mean	6,189.782
Standard Deviation	282,965.111

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	99,000.000
Arithmetic Mean	1,769,192.692
Geometric Mean	76,185.673
Standard Deviation	6,692,917.207

Results for PARAMETER$ = Zinc STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	10
Median	0.035
Arithmetic Mean	0.039
Geometric Mean	0.023
Standard Deviation	0.034

Results for PARAMETER$ = Zinc STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Garland')

	VALUE
N of Cases	26
Median	0.034
Arithmetic Mean	0.041
Geometric Mean	0.027
Standard Deviation	0.032

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.003
Arithmetic Mean	0.003
Geometric Mean	0.002
Standard Deviation	0.003

Results for PARAMETER$ = Arsenic STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.002
Arithmetic Mean	0.007
Geometric Mean	0.003
Standard Deviation	0.014

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	8.215
Arithmetic Mean	16.633
Geometric Mean	8.562
Standard Deviation	29.004

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	10.030
Arithmetic Mean	30.769
Geometric Mean	10.231
Standard Deviation	67.588

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	36.650
Arithmetic Mean	47.900
Geometric Mean	39.865
Standard Deviation	30.307

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	47.600
Arithmetic Mean	77.919
Geometric Mean	49.819
Standard Deviation	95.513

Results for PARAMETER$ = Chromium STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.002
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.003

Results for PARAMETER$ = Chromium STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.004
Arithmetic Mean	0.008
Geometric Mean	0.004
Standard Deviation	0.010

Results for PARAMETER$ = Copper STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.021
Arithmetic Mean	0.058
Geometric Mean	0.020
Standard Deviation	0.134

Results for PARAMETER$ = Copper STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.030
Arithmetic Mean	0.031
Geometric Mean	0.028
Standard Deviation	0.012

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.048
Arithmetic Mean	0.106
Geometric Mean	0.061
Standard Deviation	0.133

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE

```
--------------------+------
N of Cases          ¦    16
Median              ¦ 0.038
Arithmetic Mean     ¦ 0.133
Geometric Mean      ¦ 0.064
Standard Deviation  ¦ 0.172
```

Results for PARAMETER$ = E coli STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Irving')


                    ¦      VALUE
--------------------+-----------
N of Cases          ¦         20
Median              ¦  1,515.000
Arithmetic Mean     ¦ 17,379.550
Geometric Mean      ¦    836.037
Standard Deviation  ¦ 66,598.000
```

Results for PARAMETER$ = E coli STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Irving')


                    ¦      VALUE
--------------------+-----------
N of Cases          ¦         16
Median              ¦  3,930.000
Arithmetic Mean     ¦ 21,416.250
Geometric Mean      ¦  2,457.302
Standard Deviation  ¦ 59,147.665
```

Results for PARAMETER$ = Field pH STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Irving')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    17
Median              ¦ 7.700
Arithmetic Mean     ¦ 7.657
Geometric Mean      ¦ 7.646
Standard Deviation  ¦ 0.424
```

Results for PARAMETER$ = Field pH STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Irving')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    13
Median              ¦ 7.900
Arithmetic Mean     ¦ 7.923
```

	VALUE
Geometric Mean	7.920
Standard Deviation	0.236

Results for PARAMETER$ = Lab pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	21
Median	7.480
Arithmetic Mean	7.409
Geometric Mean	7.398
Standard Deviation	0.408

Results for PARAMETER$ = Lab pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	7.630
Arithmetic Mean	7.499
Geometric Mean	7.487
Standard Deviation	0.431

Results for PARAMETER$ = Lead STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.004
Arithmetic Mean	0.006
Geometric Mean	0.004
Standard Deviation	0.005

Results for PARAMETER$ = Lead STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.009
Arithmetic Mean	0.031
Geometric Mean	0.009
Standard Deviation	0.086

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	21
Median	0.700
Arithmetic Mean	2.003
Geometric Mean	1.298
Standard Deviation	1.986

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	1.390
Arithmetic Mean	4.054
Geometric Mean	1.811
Standard Deviation	6.848

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	303.000
Arithmetic Mean	344.450
Geometric Mean	241.100
Standard Deviation	297.256

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	244.000
Arithmetic Mean	323.500
Geometric Mean	270.129
Standard Deviation	185.978

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to

SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	2.260
Arithmetic Mean	5.145
Geometric Mean	1.694
Standard Deviation	6.761

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	4.100
Arithmetic Mean	6.148
Geometric Mean	4.368
Standard Deviation	5.717

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.048
Arithmetic Mean	0.168
Geometric Mean	0.081
Standard Deviation	0.184

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	0.174
Arithmetic Mean	0.248
Geometric Mean	0.146
Standard Deviation	0.242

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	116.000
Arithmetic Mean	285.677
Geometric Mean	140.939
Standard Deviation	354.635

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	48.500
Arithmetic Mean	99.967
Geometric Mean	44.950
Standard Deviation	148.688

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	129,000.000
Arithmetic Mean	4,384,645.500
Geometric Mean	67,525.637
Standard Deviation	13,219,304.770

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	16
Median	86,700.000
Arithmetic Mean	823,206.250
Geometric Mean	60,439.966
Standard Deviation	2,412,336.471

Results for PARAMETER$ = Zinc STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Irving')

	VALUE
N of Cases	20
Median	0.058

```
Arithmetic Mean    ¦ 0.129
Geometric Mean     ¦ 0.035
Standard Deviation ¦ 0.309
```

Results for PARAMETER$ = Zinc STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Irving')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    16
Median             ¦ 0.052
Arithmetic Mean    ¦ 0.056
Geometric Mean     ¦ 0.042
Standard Deviation ¦ 0.034
```

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Mesquite')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    21
Median             ¦ 0.004
Arithmetic Mean    ¦ 0.004
Geometric Mean     ¦ 0.003
Standard Deviation ¦ 0.004
```

Results for PARAMETER$ = Arsenic STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Mesquite')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    15
Median             ¦ 0.005
Arithmetic Mean    ¦ 0.007
Geometric Mean     ¦ 0.004
Standard Deviation ¦ 0.009
```

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Mesquite')


                   ¦ VALUE
-------------------+------
N of Cases         ¦    21
Median             ¦ 6.430
```

Arithmetic Mean	7.456
Geometric Mean	6.395
Standard Deviation	3.635

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	5.340
Arithmetic Mean	8.214
Geometric Mean	5.019
Standard Deviation	8.586

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	33.000
Arithmetic Mean	47.143
Geometric Mean	37.569
Standard Deviation	32.327

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	22.500
Arithmetic Mean	30.453
Geometric Mean	14.719
Standard Deviation	29.220

Results for PARAMETER$ = Chromium STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	0.005
Arithmetic Mean	0.006
Geometric Mean	0.005
Standard Deviation	0.005

Results for PARAMETER$ = Chromium STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	0.002
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.004

Results for PARAMETER$ = Copper STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	0.026
Arithmetic Mean	0.027
Geometric Mean	0.022
Standard Deviation	0.016

Results for PARAMETER$ = Copper STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	0.022
Arithmetic Mean	0.022
Geometric Mean	0.019
Standard Deviation	0.009

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	0.050
Arithmetic Mean	0.199
Geometric Mean	0.073
Standard Deviation	0.511

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	0.070
Arithmetic Mean	0.067
Geometric Mean	0.051
Standard Deviation	0.050

Results for PARAMETER$ = E coli STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	1,000.000
Arithmetic Mean	111,306.262
Geometric Mean	356.964
Standard Deviation	501,497.595

Results for PARAMETER$ = E coli STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	364.000
Arithmetic Mean	135,022.133
Geometric Mean	164.067
Standard Deviation	515,945.946

Results for PARAMETER$ = Field pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	7.900
Arithmetic Mean	8.108
Geometric Mean	8.066
Standard Deviation	0.868

Results for PARAMETER$ = Field pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	8.100
Arithmetic Mean	8.419
Geometric Mean	8.396
Standard Deviation	0.656

Results for PARAMETER$ = Lab pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	7.520
Arithmetic Mean	7.551
Geometric Mean	7.540
Standard Deviation	0.420

Results for PARAMETER$ = Lab pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	7.460
Arithmetic Mean	7.434
Geometric Mean	7.425
Standard Deviation	0.378

Results for PARAMETER$ = Lead STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	0.010
Arithmetic Mean	0.009
Geometric Mean	0.007
Standard Deviation	0.005

Results for PARAMETER$ = Lead STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE

N of Cases	15
Median	0.009
Arithmetic Mean	0.010
Geometric Mean	0.007
Standard Deviation	0.008

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	0.700
Arithmetic Mean	2.237
Geometric Mean	1.258
Standard Deviation	3.697

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	1.670
Arithmetic Mean	2.418
Geometric Mean	1.666
Standard Deviation	2.062

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	234.000
Arithmetic Mean	205.048
Geometric Mean	185.493
Standard Deviation	82.454

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	14
Median	373.000
Arithmetic Mean	394.714
Geometric Mean	362.791

Standard Deviation ¦ 166.411

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	2.100
Arithmetic Mean	2.060
Geometric Mean	1.324
Standard Deviation	1.263

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	4.000
Arithmetic Mean	11.193
Geometric Mean	4.084
Standard Deviation	16.465

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	0.210
Arithmetic Mean	0.353
Geometric Mean	0.140
Standard Deviation	0.811

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	0.091
Arithmetic Mean	0.119
Geometric Mean	0.103
Standard Deviation	0.064

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	112.000
Arithmetic Mean	288.278
Geometric Mean	139.118
Standard Deviation	363.347

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	22.000
Arithmetic Mean	70.205
Geometric Mean	27.956
Standard Deviation	99.183

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	21
Median	190,000.000
Arithmetic Mean	2,954,219.524
Geometric Mean	70,705.026
Standard Deviation	8,778,267.508

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

	VALUE
N of Cases	15
Median	12,200.000
Arithmetic Mean	1,468,842.767
Geometric Mean	4,930.549
Standard Deviation	5,404,429.712

Results for PARAMETER$ = Zinc STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Mesquite')

```
                     ¦ VALUE
---------------------+------
N of Cases           ¦    21
Median               ¦ 0.056
Arithmetic Mean      ¦ 0.062
Geometric Mean       ¦ 0.047
Standard Deviation   ¦ 0.042
```

Results for PARAMETER$ = Zinc STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Mesquite')
```

```
                     ¦ VALUE
---------------------+------
N of Cases           ¦    15
Median               ¦ 0.043
Arithmetic Mean      ¦ 0.045
Geometric Mean       ¦ 0.036
Standard Deviation   ¦ 0.022
```

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')
```

```
                     ¦ VALUE
---------------------+------
N of Cases           ¦    13
Median               ¦ 0.002
Arithmetic Mean      ¦ 0.005
Geometric Mean       ¦ 0.002
Standard Deviation   ¦ 0.008
```

Results for PARAMETER$ = Arsenic STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')
```

```
                     ¦ VALUE
---------------------+------
N of Cases           ¦    11
Median               ¦ 0.001
Arithmetic Mean      ¦ 0.006
Geometric Mean       ¦ 0.003
Standard Deviation   ¦ 0.008
```

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    13
Median              ¦ 5.040
Arithmetic Mean     ¦ 7.862
Geometric Mean      ¦ 5.477
Standard Deviation  ¦ 6.967
```

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 9.240
Arithmetic Mean     ¦ 8.590
Geometric Mean      ¦ 6.875
Standard Deviation  ¦ 5.020
```

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     13
Median              ¦ 23.000
Arithmetic Mean     ¦ 29.800
Geometric Mean      ¦ 19.261
Standard Deviation  ¦ 23.689
```

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')


                    ¦  VALUE
--------------------+-------
N of Cases          ¦     11
Median              ¦ 46.000
Arithmetic Mean     ¦ 39.555
Geometric Mean      ¦ 25.281
Standard Deviation  ¦ 25.495
```

Results for PARAMETER$ = Chromium STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')


                    ¦ VALUE
```

	VALUE
N of Cases	13
Median	0.004
Arithmetic Mean	0.007
Geometric Mean	0.004
Standard Deviation	0.006

Results for PARAMETER$ = Chromium STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	0.005
Arithmetic Mean	0.013
Geometric Mean	0.005
Standard Deviation	0.023

Results for PARAMETER$ = Copper STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	0.028
Arithmetic Mean	0.035
Geometric Mean	0.029
Standard Deviation	0.019

Results for PARAMETER$ = Copper STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	0.032
Arithmetic Mean	0.040
Geometric Mean	0.031
Standard Deviation	0.028

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	0.050
Arithmetic Mean	0.122

Geometric Mean	0.067
Standard Deviation	0.139

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	0.050
Arithmetic Mean	0.080
Geometric Mean	0.056
Standard Deviation	0.074

Results for PARAMETER$ = E coli STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	3,600.000
Arithmetic Mean	21,767.769
Geometric Mean	1,192.165
Standard Deviation	39,638.162

Results for PARAMETER$ = E coli STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	5,000.000
Arithmetic Mean	27,168.182
Geometric Mean	4,001.502
Standard Deviation	59,443.113

Results for PARAMETER$ = Field pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	12
Median	8.500
Arithmetic Mean	8.576
Geometric Mean	8.543
Standard Deviation	0.769

Results for PARAMETER$ = Field pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	7.980
Arithmetic Mean	7.887
Geometric Mean	7.826
Standard Deviation	1.057

Results for PARAMETER$ = Lab pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	7.650
Arithmetic Mean	7.634
Geometric Mean	7.628
Standard Deviation	0.320

Results for PARAMETER$ = Lab pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	7.550
Arithmetic Mean	7.691
Geometric Mean	7.683
Standard Deviation	0.373

Results for PARAMETER$ = Lead STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	0.012
Arithmetic Mean	0.012
Geometric Mean	0.008
Standard Deviation	0.011

Results for PARAMETER$ = Lead STM_SIZE$ = Large

Data for the following results were selected according to

```
      SELECT (CITY$ = 'NTTA')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.035
Geometric Mean      ¦ 0.010
Standard Deviation  ¦ 0.068
```

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    12
Median              ¦ 0.700
Arithmetic Mean     ¦ 1.533
Geometric Mean      ¦ 1.090
Standard Deviation  ¦ 1.642
```

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    11
Median              ¦ 0.700
Arithmetic Mean     ¦ 5.035
Geometric Mean      ¦ 1.700
Standard Deviation  ¦ 9.664
```

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')


                    ¦   VALUE
--------------------+--------
N of Cases          ¦      13
Median              ¦ 254.000
Arithmetic Mean     ¦ 311.769
Geometric Mean      ¦ 240.717
Standard Deviation  ¦ 220.476
```

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'NTTA')
```

	VALUE
N of Cases	11
Median	300.000
Arithmetic Mean	340.000
Geometric Mean	266.762
Standard Deviation	232.107

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	2.600
Arithmetic Mean	3.195
Geometric Mean	1.437
Standard Deviation	3.454

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	1.900
Arithmetic Mean	3.323
Geometric Mean	1.201
Standard Deviation	4.024

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	0.150
Arithmetic Mean	0.221
Geometric Mean	0.119
Standard Deviation	0.217

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	0.392

Arithmetic Mean	0.464
Geometric Mean	0.316
Standard Deviation	0.413

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	70.000
Arithmetic Mean	95.562
Geometric Mean	44.349
Standard Deviation	97.939

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	182.000
Arithmetic Mean	236.761
Geometric Mean	131.045
Standard Deviation	234.355

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	10,600.000
Arithmetic Mean	7,269,368.615
Geometric Mean	33,956.994
Standard Deviation	17,878,937.319

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	82,000.000
Arithmetic Mean	128,163.636
Geometric Mean	61,719.590
Standard Deviation	177,310.836

Results for PARAMETER$ = Zinc STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	13
Median	0.059
Arithmetic Mean	0.062
Geometric Mean	0.046
Standard Deviation	0.032

Results for PARAMETER$ = Zinc STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'NTTA')

	VALUE
N of Cases	11
Median	0.078
Arithmetic Mean	0.150
Geometric Mean	0.082
Standard Deviation	0.209

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.003
Arithmetic Mean	0.003
Geometric Mean	0.002
Standard Deviation	0.003

Results for PARAMETER$ = Arsenic STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.001
Arithmetic Mean	0.003
Geometric Mean	0.002
Standard Deviation	0.004

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	6.025
Arithmetic Mean	7.283
Geometric Mean	5.854
Standard Deviation	5.412

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	4.580
Arithmetic Mean	7.294
Geometric Mean	4.541
Standard Deviation	7.940

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	20.050
Arithmetic Mean	29.922
Geometric Mean	17.308
Standard Deviation	28.812

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	30.500
Arithmetic Mean	33.026
Geometric Mean	22.984
Standard Deviation	21.851

Results for PARAMETER$ = Chromium STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.004
Arithmetic Mean	0.006
Geometric Mean	0.004
Standard Deviation	0.007

Results for PARAMETER$ = Chromium STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.003
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.003

Results for PARAMETER$ = Copper STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.023
Arithmetic Mean	0.032
Geometric Mean	0.021
Standard Deviation	0.032

Results for PARAMETER$ = Copper STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.023
Arithmetic Mean	0.024
Geometric Mean	0.021
Standard Deviation	0.013

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.050
Arithmetic Mean	0.095
Geometric Mean	0.059
Standard Deviation	0.111

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.025
Arithmetic Mean	0.036
Geometric Mean	0.032
Standard Deviation	0.023

Results for PARAMETER$ = E coli STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	1,800.000
Arithmetic Mean	4,963.917
Geometric Mean	758.146
Standard Deviation	7,549.018

Results for PARAMETER$ = E coli STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	800.000
Arithmetic Mean	24,530.333
Geometric Mean	722.961
Standard Deviation	84,104.191

Results for PARAMETER$ = Field pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE

	VALUE
N of Cases	18
Median	7.850
Arithmetic Mean	7.763
Geometric Mean	7.703
Standard Deviation	0.993

Results for PARAMETER$ = Field pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	8.090
Arithmetic Mean	8.085
Geometric Mean	8.066
Standard Deviation	0.557

Results for PARAMETER$ = Lab pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	7.590
Arithmetic Mean	7.556
Geometric Mean	7.543
Standard Deviation	0.458

Results for PARAMETER$ = Lab pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	7.610
Arithmetic Mean	7.608
Geometric Mean	7.603
Standard Deviation	0.298

Results for PARAMETER$ = Lead STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.007
Arithmetic Mean	0.011
Geometric Mean	0.007

Standard Deviation ¦ 0.013

Results for PARAMETER$ = Lead STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.004
Arithmetic Mean	0.005
Geometric Mean	0.004
Standard Deviation	0.004

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.700
Arithmetic Mean	2.372
Geometric Mean	1.390
Standard Deviation	2.914

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	17
Median	1.390
Arithmetic Mean	4.013
Geometric Mean	1.957
Standard Deviation	6.360

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	296.000
Arithmetic Mean	281.278
Geometric Mean	244.551
Standard Deviation	132.455

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	341.000
Arithmetic Mean	377.778
Geometric Mean	308.571
Standard Deviation	217.764

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	2.000
Arithmetic Mean	1.826
Geometric Mean	0.865
Standard Deviation	1.307

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	1.850
Arithmetic Mean	2.479
Geometric Mean	1.565
Standard Deviation	2.252

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.190
Arithmetic Mean	0.279
Geometric Mean	0.135
Standard Deviation	0.360

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	0.059
Arithmetic Mean	0.086
Geometric Mean	0.069
Standard Deviation	0.062

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	191.000
Arithmetic Mean	408.483
Geometric Mean	179.858
Standard Deviation	641.456

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	22.000
Arithmetic Mean	58.833
Geometric Mean	22.609
Standard Deviation	78.836

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE
N of Cases	18
Median	97,000.000
Arithmetic Mean	4,578,261.667
Geometric Mean	58,101.119
Standard Deviation	17,600,707.165

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'Plano')

	VALUE

```
--------------------+--------------
N of Cases          ¦            18
Median              ¦    50,350.000
Arithmetic Mean     ¦   588,658.889
Geometric Mean      ¦    36,340.312
Standard Deviation  ¦ 1,429,168.159
```

Results for PARAMETER$ = Zinc STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    18
Median              ¦ 0.039
Arithmetic Mean     ¦ 0.051
Geometric Mean      ¦ 0.040
Standard Deviation  ¦ 0.037
```

Results for PARAMETER$ = Zinc STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'Plano')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    18
Median              ¦ 0.036
Arithmetic Mean     ¦ 0.045
Geometric Mean      ¦ 0.036
Standard Deviation  ¦ 0.032
```

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'TxDOT')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.002
Arithmetic Mean     ¦ 0.004
Geometric Mean      ¦ 0.003
Standard Deviation  ¦ 0.004
```

Results for PARAMETER$ = Arsenic STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'TxDOT')


                    ¦ VALUE
```

	VALUE
N of Cases	15
Median	0.002
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.005

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	5.450
Arithmetic Mean	7.556
Geometric Mean	5.493
Standard Deviation	5.895

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	9.840
Arithmetic Mean	10.941
Geometric Mean	9.134
Standard Deviation	6.363

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	61.400
Arithmetic Mean	58.089
Geometric Mean	50.534
Standard Deviation	27.302

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	23.000
Arithmetic Mean	91.547

Geometric Mean	27.034
Standard Deviation	225.199

Results for PARAMETER$ = Chromium STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	0.003
Arithmetic Mean	0.006
Geometric Mean	0.004
Standard Deviation	0.005

Results for PARAMETER$ = Chromium STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	0.004
Arithmetic Mean	0.005
Geometric Mean	0.003
Standard Deviation	0.005

Results for PARAMETER$ = Copper STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	0.038
Arithmetic Mean	0.037
Geometric Mean	0.026
Standard Deviation	0.022

Results for PARAMETER$ = Copper STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	0.027
Arithmetic Mean	0.033
Geometric Mean	0.024
Standard Deviation	0.020

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	0.080
Arithmetic Mean	0.077
Geometric Mean	0.067
Standard Deviation	0.036

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	0.050
Arithmetic Mean	0.056
Geometric Mean	0.045
Standard Deviation	0.046

Results for PARAMETER$ = E coli STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	1,400.000
Arithmetic Mean	4,293.889
Geometric Mean	1,002.594
Standard Deviation	4,959.691

Results for PARAMETER$ = E coli STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	5,000.000
Arithmetic Mean	7,981.133
Geometric Mean	367.307
Standard Deviation	12,037.539

Results for PARAMETER$ = Field pH STM_SIZE$ = Large

Data for the following results were selected according to

```
      SELECT (CITY$ = 'TxDOT')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 7.600
Arithmetic Mean     ¦ 7.641
Geometric Mean      ¦ 7.597
Standard Deviation  ¦ 0.851
```

Results for PARAMETER$ = Field pH STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'TxDOT')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    15
Median              ¦ 8.140
Arithmetic Mean     ¦ 8.050
Geometric Mean      ¦ 8.024
Standard Deviation  ¦ 0.665
```

Results for PARAMETER$ = Lab pH STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'TxDOT')


                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 7.480
Arithmetic Mean     ¦ 7.481
Geometric Mean      ¦ 7.478
Standard Deviation  ¦ 0.230
```

Results for PARAMETER$ = Lab pH STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'TxDOT')


                    ¦ VALUE
--------------------+------
N of Cases          ¦    15
Median              ¦ 7.600
Arithmetic Mean     ¦ 7.562
Geometric Mean      ¦ 7.555
Standard Deviation  ¦ 0.325
```

Results for PARAMETER$ = Lead STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'TxDOT')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.008
Arithmetic Mean     ¦ 0.011
Geometric Mean      ¦ 0.007
Standard Deviation  ¦ 0.009
```

Results for PARAMETER$ = Lead STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'TxDOT')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    15
Median              ¦ 0.005
Arithmetic Mean     ¦ 0.011
Geometric Mean      ¦ 0.007
Standard Deviation  ¦ 0.012
```

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'TxDOT')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦     9
Median              ¦ 0.700
Arithmetic Mean     ¦ 1.324
Geometric Mean      ¦ 0.894
Standard Deviation  ¦ 1.873
```

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (CITY$ = 'TxDOT')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦    14
Median              ¦ 1.945
Arithmetic Mean     ¦ 3.585
Geometric Mean      ¦ 2.155
Standard Deviation  ¦ 3.838
```

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (CITY$ = 'TxDOT')
```

```
                    ¦   VALUE
--------------------+--------
N of Cases          ¦       9
Median              ¦ 270.000
```

	VALUE
Arithmetic Mean	248.333
Geometric Mean	207.108
Standard Deviation	133.987

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	270.000
Arithmetic Mean	278.667
Geometric Mean	252.330
Standard Deviation	125.248

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	0.500
Arithmetic Mean	0.761
Geometric Mean	0.205
Standard Deviation	0.951

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	2.200
Arithmetic Mean	4.372
Geometric Mean	2.651
Standard Deviation	5.338

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	0.229
Arithmetic Mean	0.257
Geometric Mean	0.223
Standard Deviation	0.147

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	0.050
Arithmetic Mean	0.098
Geometric Mean	0.066
Standard Deviation	0.090

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	232.000
Arithmetic Mean	241.444
Geometric Mean	144.328
Standard Deviation	206.389

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	47.000
Arithmetic Mean	76.591
Geometric Mean	52.264
Standard Deviation	74.320

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	116,000.000
Arithmetic Mean	237,944.444
Geometric Mean	80,331.097
Standard Deviation	282,710.148

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	82,000.000
Arithmetic Mean	477,627.467
Geometric Mean	44,560.424
Standard Deviation	882,827.231

Results for PARAMETER$ = Zinc STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	9
Median	0.067
Arithmetic Mean	0.068
Geometric Mean	0.054
Standard Deviation	0.046

Results for PARAMETER$ = Zinc STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (CITY$ = 'TxDOT')

	VALUE
N of Cases	15
Median	0.054
Arithmetic Mean	0.069
Geometric Mean	0.055
Standard Deviation	0.064

▼Descriptive Statistics

Results for PARAMETER$ = Arsenic STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	141
Median	0.004
Arithmetic Mean	0.004
Geometric Mean	0.003
Standard Deviation	0.004

Results for PARAMETER$ = Arsenic STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	144
Median	0.002
Arithmetic Mean	0.005
Geometric Mean	0.003
Standard Deviation	0.008

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	141
Median	6.930
Arithmetic Mean	10.751
Geometric Mean	6.899
Standard Deviation	15.292

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	144
Median	5.775
Arithmetic Mean	11.313
Geometric Mean	5.812
Standard Deviation	24.736

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	141
Median	40.100
Arithmetic Mean	50.748
Geometric Mean	33.283
Standard Deviation	47.120

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

```
                    ¦  VALUE
--------------------+-------
N of Cases          ¦    144
Median              ¦ 28.500
Arithmetic Mean     ¦ 47.776
Geometric Mean      ¦ 23.425
Standard Deviation  ¦ 90.256
```

Results for PARAMETER$ = Chromium STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦   141
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.007
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.010
```

Results for PARAMETER$ = Chromium STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦   144
Median              ¦ 0.004
Arithmetic Mean     ¦ 0.005
Geometric Mean      ¦ 0.004
Standard Deviation  ¦ 0.005
```

Results for PARAMETER$ = Copper STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2')
```

```
                    ¦ VALUE
--------------------+------
N of Cases          ¦   141
Median              ¦ 0.023
Arithmetic Mean     ¦ 0.032
Geometric Mean      ¦ 0.018
Standard Deviation  ¦ 0.056
```

Results for PARAMETER$ = Copper STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2')
```

```
                    ¦ VALUE
--------------------+------
```

```
N of Cases         ¦   144
Median             ¦ 0.023
Arithmetic Mean    ¦ 0.024
Geometric Mean     ¦ 0.018
Standard Deviation ¦ 0.015
```

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2')


                   ¦ VALUE
-------------------+------
N of Cases         ¦   141
Median             ¦ 0.070
Arithmetic Mean    ¦ 0.118
Geometric Mean     ¦ 0.066
Standard Deviation ¦ 0.221
```

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2')


                   ¦ VALUE
-------------------+------
N of Cases         ¦   143
Median             ¦ 0.025
Arithmetic Mean    ¦ 0.082
Geometric Mean     ¦ 0.048
Standard Deviation ¦ 0.107
```

Results for PARAMETER$ = E coli STM_SIZE$ = Large

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2')


                   ¦       VALUE
-------------------+------------
N of Cases         ¦         137
Median             ¦   1,700.000
Arithmetic Mean    ¦  32,275.522
Geometric Mean     ¦   1,104.744
Standard Deviation ¦ 200,937.292
```

Results for PARAMETER$ = E coli STM_SIZE$ = Small

```
Data for the following results were selected according to
      SELECT (ENTITY$ = 'COG2')


                   ¦       VALUE
-------------------+------------
N of Cases         ¦         144
Median             ¦     954.500
Arithmetic Mean    ¦  37,617.531
Geometric Mean     ¦     729.764
```

Standard Deviation	184,958.244

Results for PARAMETER$ = Field pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	130
Median	7.800
Arithmetic Mean	7.863
Geometric Mean	7.831
Standard Deviation	0.722

Results for PARAMETER$ = Field pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	128
Median	7.965
Arithmetic Mean	8.070
Geometric Mean	8.046
Standard Deviation	0.645

Results for PARAMETER$ = Lab pH STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	109
Median	7.540
Arithmetic Mean	7.543
Geometric Mean	7.534
Standard Deviation	0.381

Results for PARAMETER$ = Lab pH STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	132
Median	7.595
Arithmetic Mean	7.541
Geometric Mean	7.533
Standard Deviation	0.348

Results for PARAMETER$ = Lead STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	141
Median	0.008
Arithmetic Mean	0.014
Geometric Mean	0.007
Standard Deviation	0.024

Results for PARAMETER$ = Lead STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	144
Median	0.005
Arithmetic Mean	0.011
Geometric Mean	0.006
Standard Deviation	0.030

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	142
Median	0.700
Arithmetic Mean	2.606
Geometric Mean	1.387
Standard Deviation	4.711

Results for PARAMETER$ = Oil and Grease STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	139
Median	1.390
Arithmetic Mean	3.075
Geometric Mean	1.651
Standard Deviation	5.911

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	141
Median	244.000
Arithmetic Mean	261.865
Geometric Mean	210.513
Standard Deviation	174.542

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	143
Median	330.000
Arithmetic Mean	382.329
Geometric Mean	317.473
Standard Deviation	248.011

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	138
Median	1.870
Arithmetic Mean	2.808
Geometric Mean	1.147
Standard Deviation	4.665

Results for PARAMETER$ = NITROGEN, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	144
Median	2.550
Arithmetic Mean	5.713
Geometric Mean	2.189
Standard Deviation	10.684

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE

N of Cases	141
Median	0.229
Arithmetic Mean	0.321
Geometric Mean	0.169
Standard Deviation	0.456

Results for PARAMETER$ = PHOSPHORUS, TOTAL STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	143
Median	0.100
Arithmetic Mean	0.163
Geometric Mean	0.096
Standard Deviation	0.197

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	141
Median	142.000
Arithmetic Mean	297.309
Geometric Mean	129.530
Standard Deviation	394.968

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	144
Median	37.500
Arithmetic Mean	117.104
Geometric Mean	36.439
Standard Deviation	225.049

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	137
Median	90,000.000
Arithmetic Mean	1,832,990.496

Geometric Mean	55,371.639
Standard Deviation	8,842,277.189

Results for PARAMETER$ = Total Coliforms STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	144
Median	50,350.000
Arithmetic Mean	1,433,304.774
Geometric Mean	35,896.974
Standard Deviation	6,511,649.710

Results for PARAMETER$ = Zinc STM_SIZE$ = Large

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	141
Median	0.049
Arithmetic Mean	0.075
Geometric Mean	0.041
Standard Deviation	0.137

Results for PARAMETER$ = Zinc STM_SIZE$ = Small

Data for the following results were selected according to
SELECT (ENTITY$ = 'COG2')

	VALUE
N of Cases	144
Median	0.038
Arithmetic Mean	0.048
Geometric Mean	0.033
Standard Deviation	0.039

Appendix K

NCTCOG Watershed Comparison Statistical Tests and Results

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND') AND (WATERSHED$ =
'Dallas East Bank') AND (SITE_ID$ = 'DL 0701a') OR (PARAMETER$ = 'BIOCHEMICAL
OXYGEN DEMAND') AND (WATERSHED$ = 'Dallas East Bank') AND (SITE_ID$ = 'DL
0701b')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

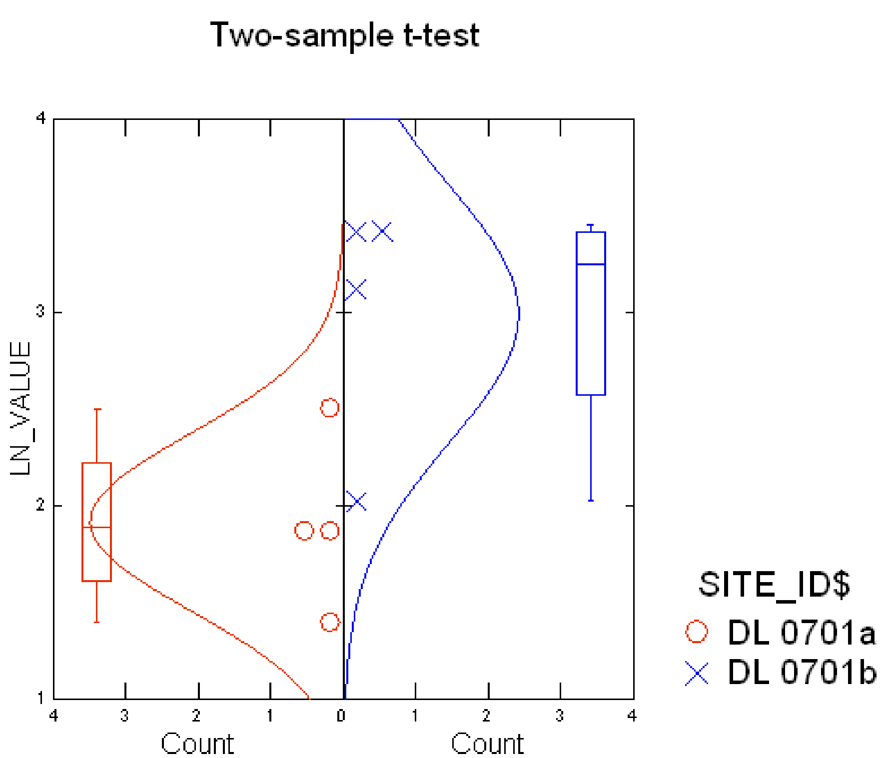
GROUP	N	Mean	Standard Deviation
DL 0701a	4	1.916	0.456
DL 0701b	4	2.992	0.662

Separate Variance

```
Difference in Means          : -1.076
95.00% Confidence Interval : -2.090 to -0.061
t                            : -2.676
df                           :  5.328
p-value                      :  0.041
```

Pooled Variance

```
Difference in Means          : -1.076
95.00% Confidence Interval : -2.059 to -0.092
t                            : -2.676
df                           :  6.000
p-value                      :  0.037
```



```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND') AND (WATERSHED$ =
'Dallas East Bank') AND (SITE_ID$ = 'DL 0701a') OR (PARAMETER$ = 'BIOCHEMICAL
OXYGEN DEMAND') AND (WATERSHED$ = 'Dallas East Bank') AND (SITE_ID$ = 'DL
0701c')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

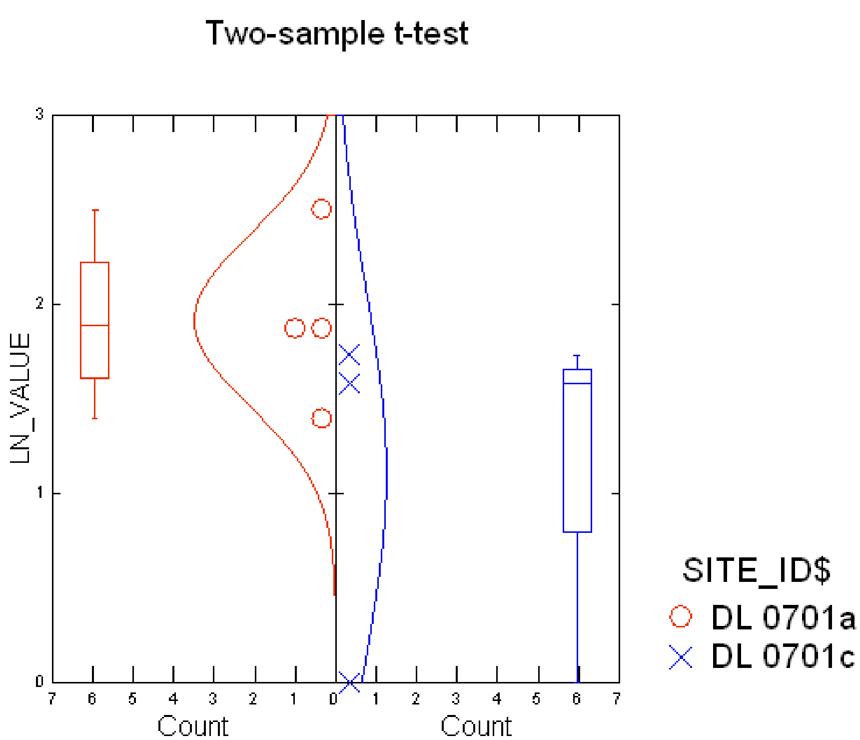
GROUP	N	Mean	Standard Deviation
DL 0701a	4	1.916	0.456
DL 0701c	3	1.106	0.960

Separate Variance

```
Difference in Means         :  0.811
95.00% Confidence Interval  : -1.231 to 2.853
t                           :  1.352
df                          :  2.684
p-value                     :  0.279
```

Pooled Variance

```
Difference in Means         :  0.811
95.00% Confidence Interval  : -0.569 to 2.191
t                           :  1.511
df                          :  5.000
p-value                     :  0.191
```



Data for the following results were selected according to
SELECT (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND') AND (WATERSHED$ = 'Dallas East Bank') AND (SITE_ID$ = 'DL 0701b') OR (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND') AND (WATERSHED$ = 'Dallas East Bank') AND (SITE_ID$ = 'DL 0701c')

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

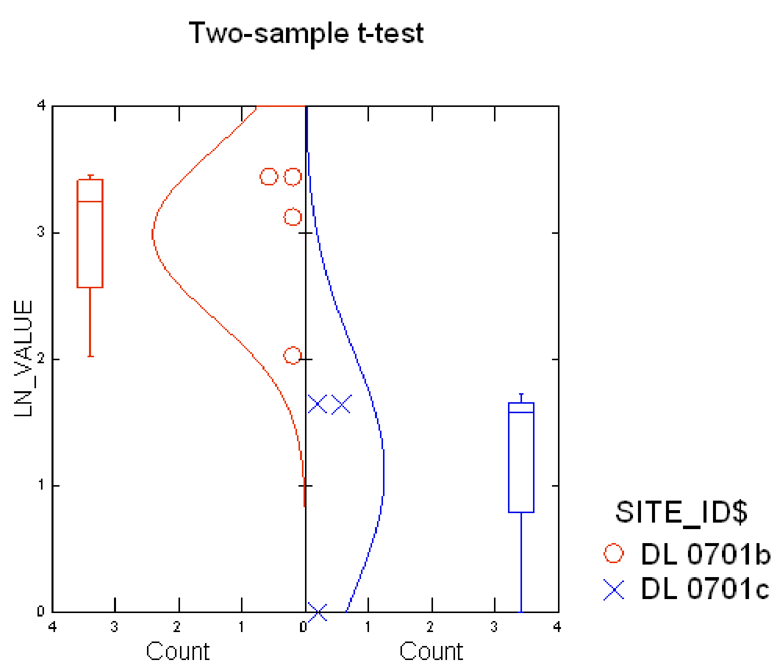
GROUP	N	Mean	Standard Deviation
DL 0701b	4	2.992	0.662
DL 0701c	3	1.106	0.960

Separate Variance

Difference in Means	: 1.887
95.00% Confidence Interval	: -0.040 to 3.814
t	: 2.922
df	: 3.391
p-value	: 0.053

Pooled Variance

Difference in Means	: 1.887
95.00% Confidence Interval	: 0.326 to 3.447
t	: 3.108
df	: 5.000
p-value	: 0.027



Data for the following results were selected according to
SELECT (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND') AND (CITY$ = 'Mesquite') AND (LOCATION$ = 'Upstream') OR (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND') AND (CITY$ = 'Mesquite') AND (LOCATION$ = 'Downstream')

Two-sample t-test on LN_VALUE Grouped by LOCATION$ vs Alternative = 'not equal'

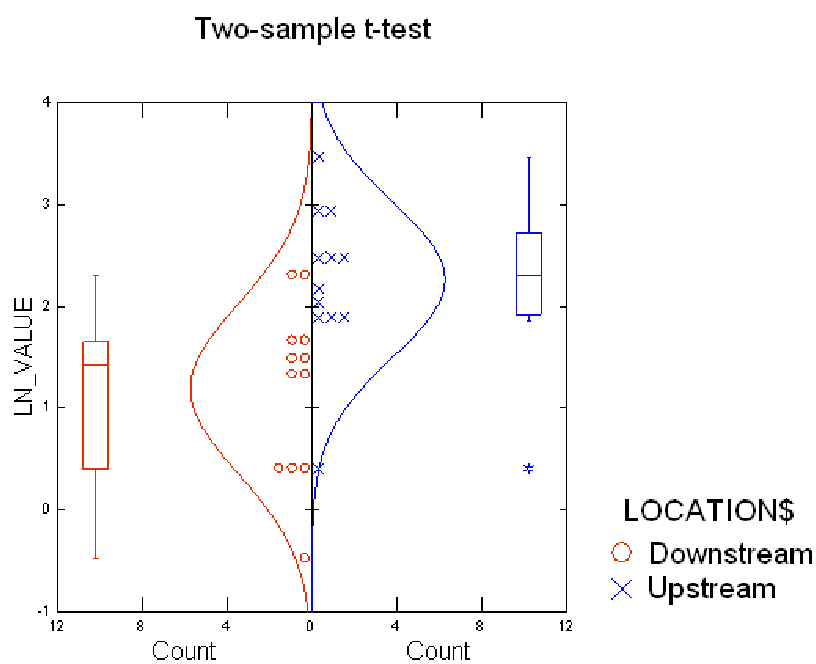
GROUP	N	Mean	Standard Deviation
Downstream	12	1.189	0.835
Upstream	12	2.261	0.764

Separate Variance

Difference in Means : -1.072
95.00% Confidence Interval : -1.750 to -0.394
t : -3.282
df : 21.827
p-value : 0.003

Pooled Variance

Difference in Means : -1.072
95.00% Confidence Interval : -1.750 to -0.395
t : -3.282
df : 22.000
p-value : 0.003



Data for the following results were selected according to

SELECT (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND') AND (CITY$ = 'Mesquite') AND (LOCATION$ = 'Upstream') OR (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND') AND (CITY$ = 'Mesquite') AND (LOCATION$ = 'Midstream')

Two-sample t-test on LN_VALUE Grouped by LOCATION$ vs Alternative = 'not equal'

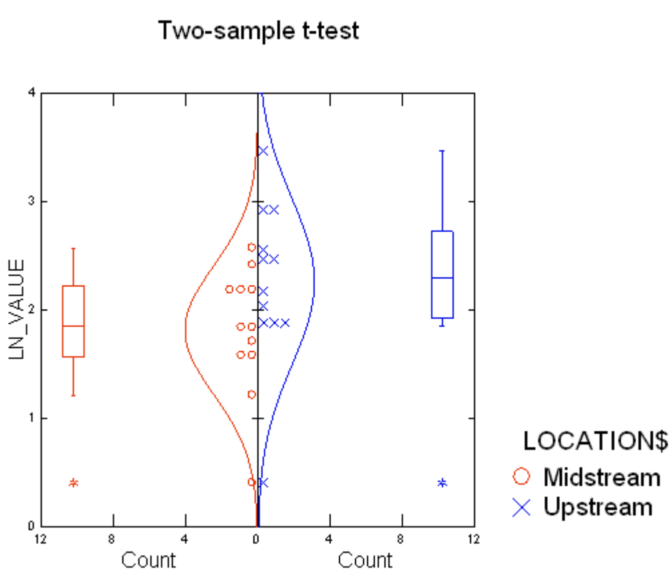
GROUP	N	Mean	Standard Deviation
Midstream	12	1.814	0.593
Upstream	12	2.261	0.764

Separate Variance

```
Difference in Means          : -0.447
95.00% Confidence Interval   : -1.028 to 0.134
t                            : -1.603
df                           : 20.729
p-value                      :  0.124
```

Pooled Variance

```
Difference in Means          : -0.447
95.00% Confidence Interval   : -1.026 to 0.132
t                            : -1.603
df                           : 22.000
p-value                      :  0.123
```



Data for the following results were selected according to

SELECT (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND') AND (CITY$ = 'Mesquite') AND (LOCATION$ = 'Midstream') OR (PARAMETER$ = 'BIOCHEMICAL OXYGEN DEMAND') AND (CITY$ = 'Mesquite') AND (LOCATION$ = 'Downstream')

Two-sample t-test on LN_VALUE Grouped by LOCATION$ vs Alternative = 'not equal'

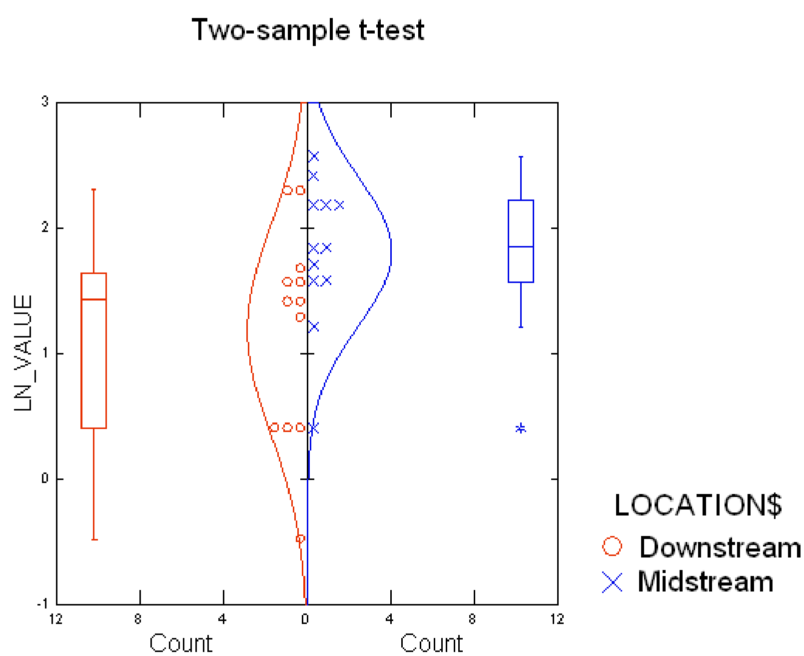
GROUP	N	Mean	Standard Deviation
Downstream	12	1.189	0.835
Midstream	12	1.814	0.593

Separate Variance

```
Difference in Means          : -0.625
95.00% Confidence Interval : -1.242 to -0.008
t                            : -2.113
df                           : 19.846
p-value                      :  0.047
```

Pooled Variance

```
Difference in Means          : -0.625
95.00% Confidence Interval : -1.238 to -0.012
t                            : -2.113
df                           : 22.000
p-value                      :  0.046
```

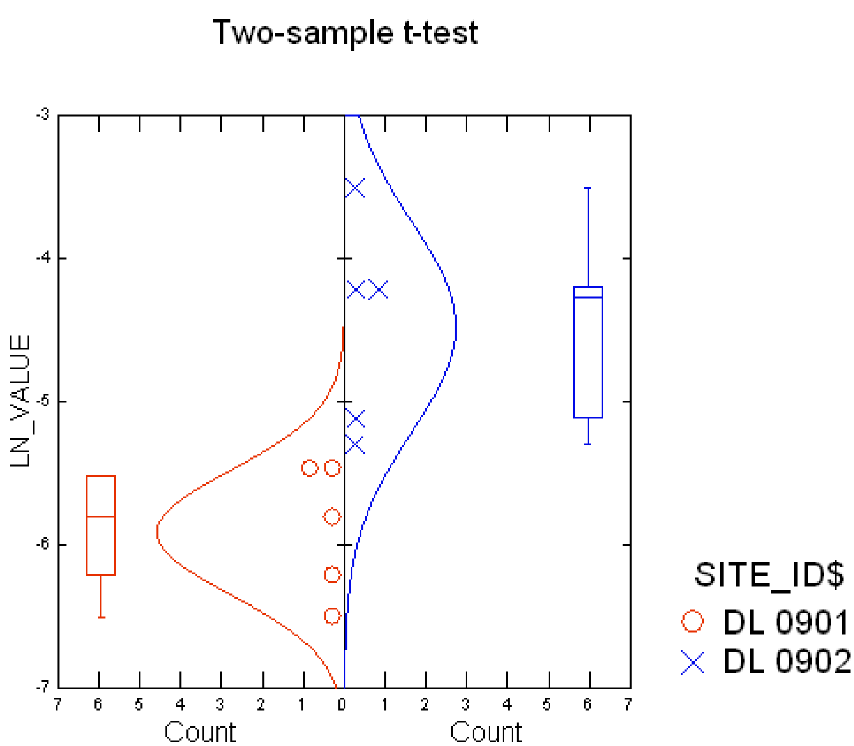


```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Chromium') AND (WATERSHED$ = 'Southeast Dallas')
AND (SITE_ID$ = 'DL 0901') OR (PARAMETER$ = 'Chromium') AND (WATERSHED$ =
'Southeast Dallas') AND (SITE_ID$ = 'DL 0902')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

GROUP	N	Mean	Standard Deviation
DL 0901	5	-5.914	0.435
DL 0902	5	-4.478	0.732

```
Separate Variance

Difference in Means          : -1.436
95.00% Confidence Interval : -2.350 to -0.521
t                            : -3.771
df                           :  6.507
p-value                      :  0.008

Pooled Variance

Difference in Means          : -1.436
95.00% Confidence Interval : -2.314 to -0.558
t                            : -3.771
df                           :  8.000
p-value                      :  0.005
```



```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Chromium') AND (WATERSHED$ = 'Southeast Dallas')
AND (SITE_ID$ = 'DL 0901') OR (PARAMETER$ = 'Chromium') AND (WATERSHED$ =
'Southeast Dallas') AND (SITE_ID$ = 'DL 0903')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

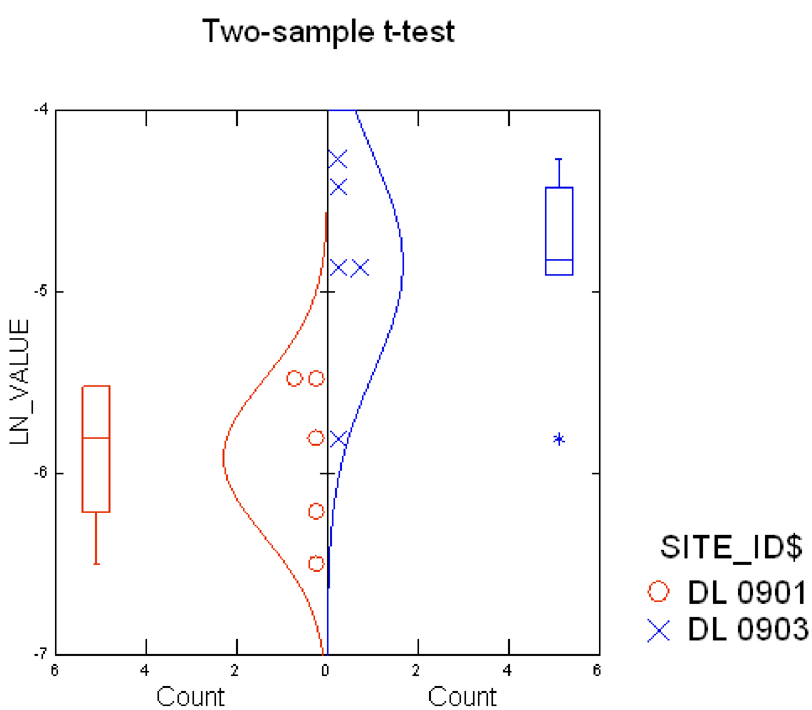
GROUP	N	Mean	Standard Deviation
DL 0901	5	-5.914	0.435
DL 0903	5	-4.847	0.601

Separate Variance

```
Difference in Means          : -1.067
95.00% Confidence Interval : -1.845 to -0.289
t                            : -3.217
df                           :  7.286
p-value                      :  0.014
```

Pooled Variance

```
Difference in Means          : -1.067
95.00% Confidence Interval : -1.831 to -0.302
t                            : -3.217
df                           :  8.000
p-value                      :  0.012
```



```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Chromium') AND (WATERSHED$ = 'Southeast Dallas')
AND (SITE_ID$ = 'DL 0902') OR (PARAMETER$ = 'Chromium') AND (WATERSHED$ =
'Southeast Dallas') AND (SITE_ID$ = 'DL 0903')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

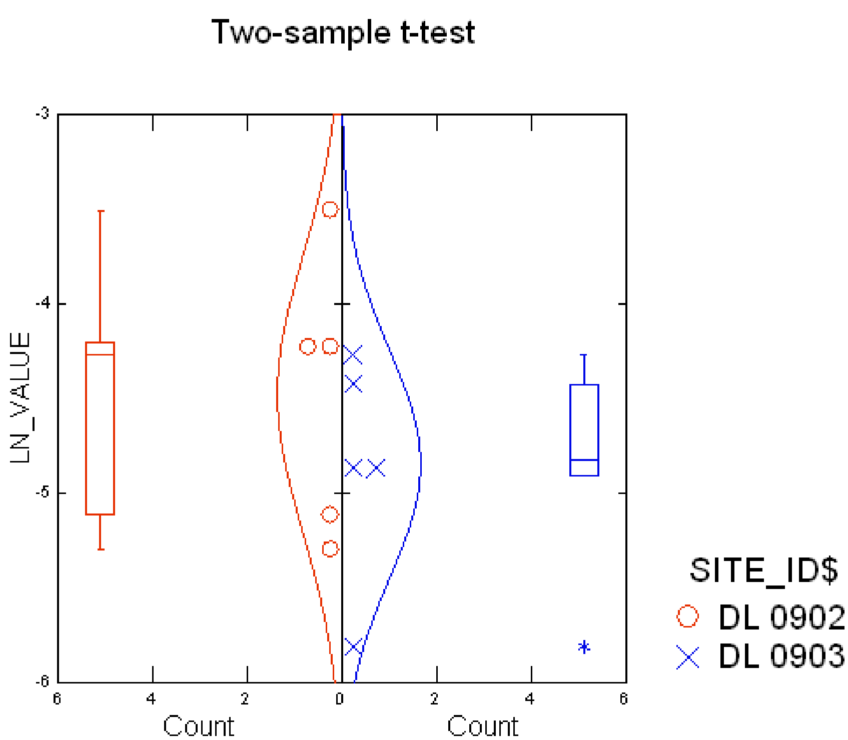
GROUP	N	Mean	Standard Deviation
DL 0902	5	-4.478	0.732
DL 0903	5	-4.847	0.601

Separate Variance

```
Difference in Means          :  0.369
95.00% Confidence Interval : -0.614 to 1.353
t                            :  0.872
df                           :  7.706
p-value                      :  0.410
```

Pooled Variance

```
Difference in Means          :  0.369
95.00% Confidence Interval : -0.608 to 1.346
t                            :  0.872
df                           :  8.000
p-value                      :  0.409
```



Data for the following results were selected according to
SELECT (PARAMETER$ = 'Lab pH') AND (WATERSHED$ = 'Big Bear Creek') AND (SITE_ID$ = 'IR 0901') OR (PARAMETER$ = 'Lab pH') AND (WATERSHED$ = 'Big Bear Creek') AND (SITE_ID$ = 'IR 0902')

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

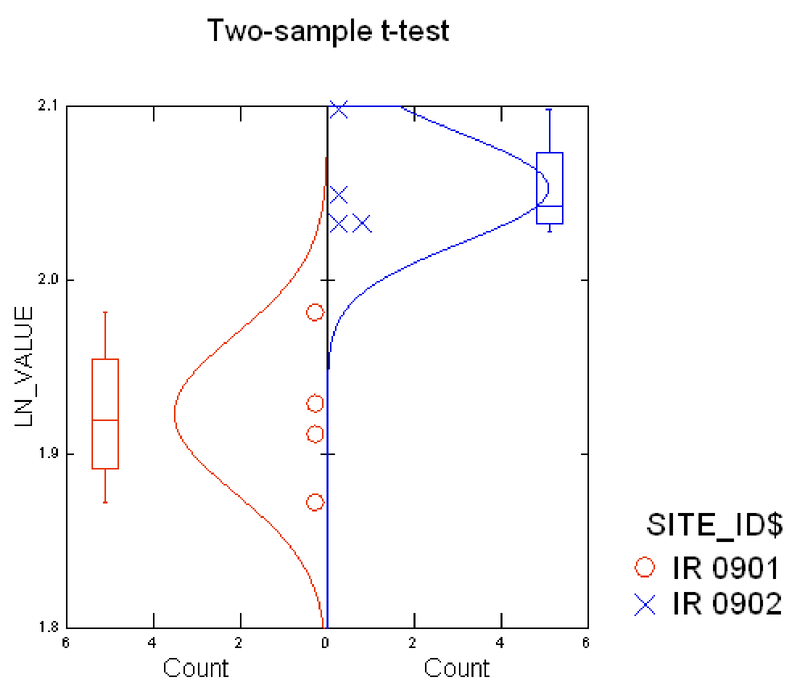
GROUP	N	Mean	Standard Deviation
IR 0901	4	1.923	0.045
IR 0902	4	2.053	0.031

Separate Variance

```
Difference in Means          : -0.130
95.00% Confidence Interval : -0.199 to -0.060
t                            : -4.707
df                           :  5.337
p-value                      :  0.004
```

Pooled Variance

```
Difference in Means          : -0.130
95.00% Confidence Interval : -0.197 to -0.062
t                            : -4.707
df                           :  6.000
p-value                      :  0.003
```



```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lab pH') AND (WATERSHED$ = 'Big Bear Creek') AND
(SITE_ID$ = 'IR 0901') OR (PARAMETER$ = 'Lab pH') AND (WATERSHED$ = 'Big Bear
Creek') AND (SITE_ID$ = 'IR 0903')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

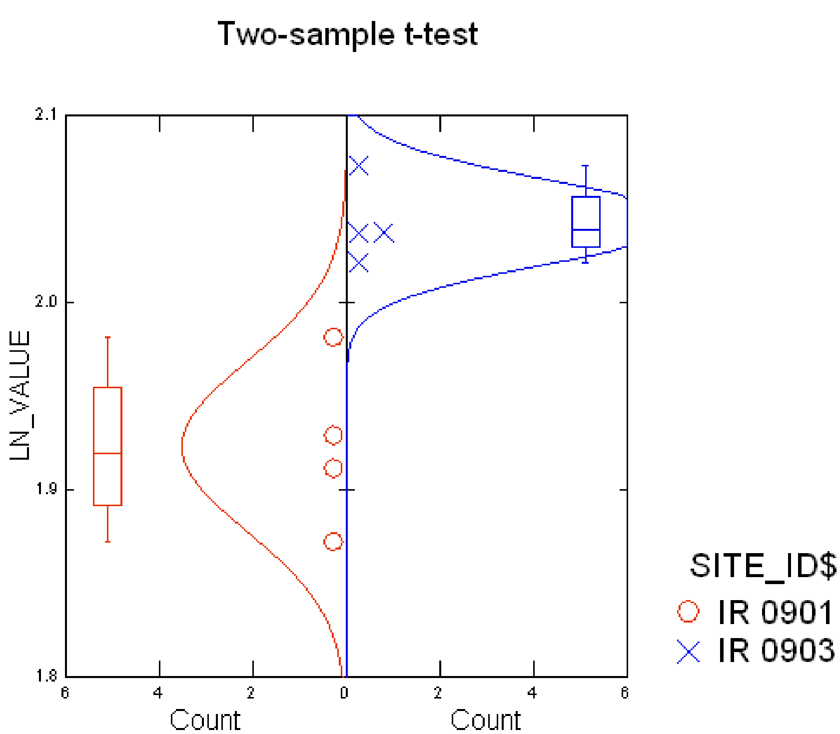
GROUP	N	Mean	Standard Deviation
IR 0901	4	1.923	0.045
IR 0903	4	2.043	0.022

Separate Variance

```
Difference in Means          : -0.120
95.00% Confidence Interval : -0.188 to -0.052
t                            : -4.772
df                           :  4.307
p-value                      :  0.007
```

Pooled Variance

```
Difference in Means          : -0.120
95.00% Confidence Interval : -0.181 to -0.058
t                            : -4.772
df                           :  6.000
p-value                      :  0.003
```



```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lab pH') AND (WATERSHED$ = 'Big Bear Creek') AND
(SITE_ID$ = 'IR 0902') OR (PARAMETER$ = 'Lab pH') AND (WATERSHED$ = 'Big Bear
Creek') AND (SITE_ID$ = 'IR 0903')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

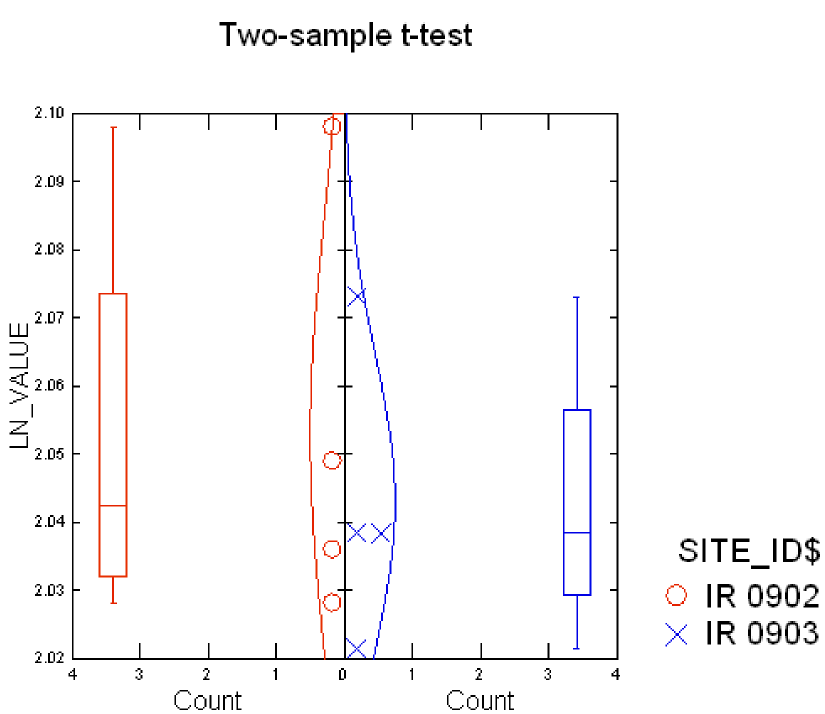
GROUP	N	Mean	Standard Deviation
IR 0902	4	2.053	0.031
IR 0903	4	2.043	0.022

Separate Variance

```
Difference in Means          :  0.010
95.00% Confidence Interval : -0.038 to 0.058
t                            :  0.514
df                           :  5.338
p-value                      :  0.628
```

Pooled Variance

```
Difference in Means          :  0.010
95.00% Confidence Interval : -0.037 to 0.056
t                            :  0.514
df                           :  6.000
p-value                      :  0.626
```



Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

Data for the following results were selected according to
SELECT (PARAMETER$ = 'Lead') AND (SITE_ID$ = 'DL 0801') OR (PARAMETER$ = 'Lead') AND (SITE_ID$ = 'DL 0802')

The categorical values encountered during processing are

Variables	Levels
SITE_ID$ (2 levels)	DL 0801 DL 0802

Dependent variable ¦ LN_VALUE
Grouping variable ¦ SITE_ID$

Group	Count	Rank Sum
DL 0801	4	24.500
DL 0802	4	11.500

Mann-Whitney U Test Statistic : 14.500
p-value : 0.046
Chi-square Approximation : 3.997
df : 1

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

Data for the following results were selected according to
SELECT (PARAMETER$ = 'Lead') AND (SITE_ID$ = 'DL 0801') OR (PARAMETER$ = 'Lead') AND (SITE_ID$ = 'DL 0803')

The categorical values encountered during processing are

Variables	Levels
SITE_ID$ (2 levels)	DL 0801 DL 0803

Dependent variable ¦ LN_VALUE
Grouping variable ¦ SITE_ID$

Group	Count	Rank Sum
DL 0801	4	24.000
DL 0803	4	12.000

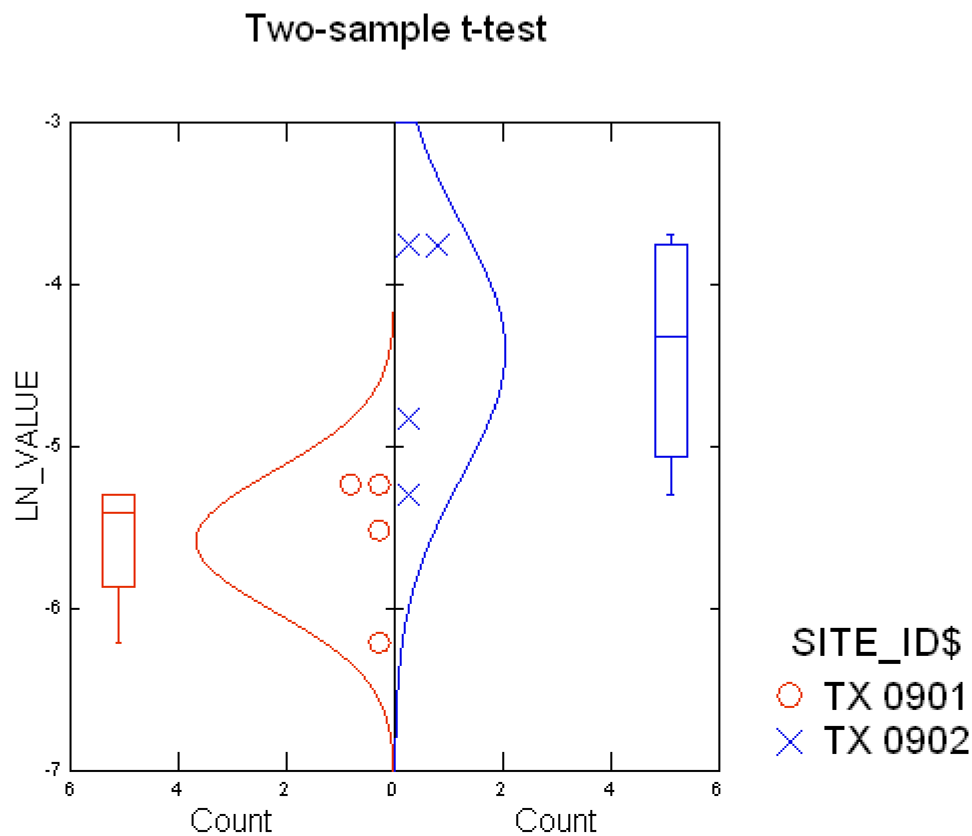
Mann-Whitney U Test Statistic : 14.000
p-value : 0.047
Chi-square Approximation : 3.938
df : 1

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lead') AND (SITE_ID$ = 'DL 0802') OR (PARAMETER$ =
'Lead') AND (SITE_ID$ = 'DL 0803')

The categorical values encountered during processing are

Variables            ¦      Levels
---------------------+------------------
SITE_ID$ (2 levels) ¦ DL 0802   DL 0803

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ SITE_ID$

Group     Count   Rank Sum
--------------------------
DL 0802       4     16.000
DL 0803       4     20.000

Mann-Whitney U Test Statistic : 6.000
p-value                       : 0.317
Chi-square Approximation      : 1.000
df                            : 1


Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lead') AND (SITE_ID$ = 'TX 0901') OR (PARAMETER$ =
'Lead') AND (SITE_ID$ = 'TX 0902')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

```
        ¦                Standard
GROUP   ¦ N      Mean   Deviation
--------+-----------------------
TX 0901 ¦ 4   -5.583       0.434
TX 0902 ¦ 4   -4.408       0.782

Separate Variance

Difference in Means         : -1.175
95.00% Confidence Interval : -2.348 to -0.002
t                           : -2.627
df                          :  4.686
p-value                     :  0.050

Pooled Variance

Difference in Means         : -1.175
95.00% Confidence Interval : -2.270 to -0.081
t                           : -2.627
df                          :  6.000
p-value                     :  0.039
```



▼Hypothesis Testing: Two-sample t-test

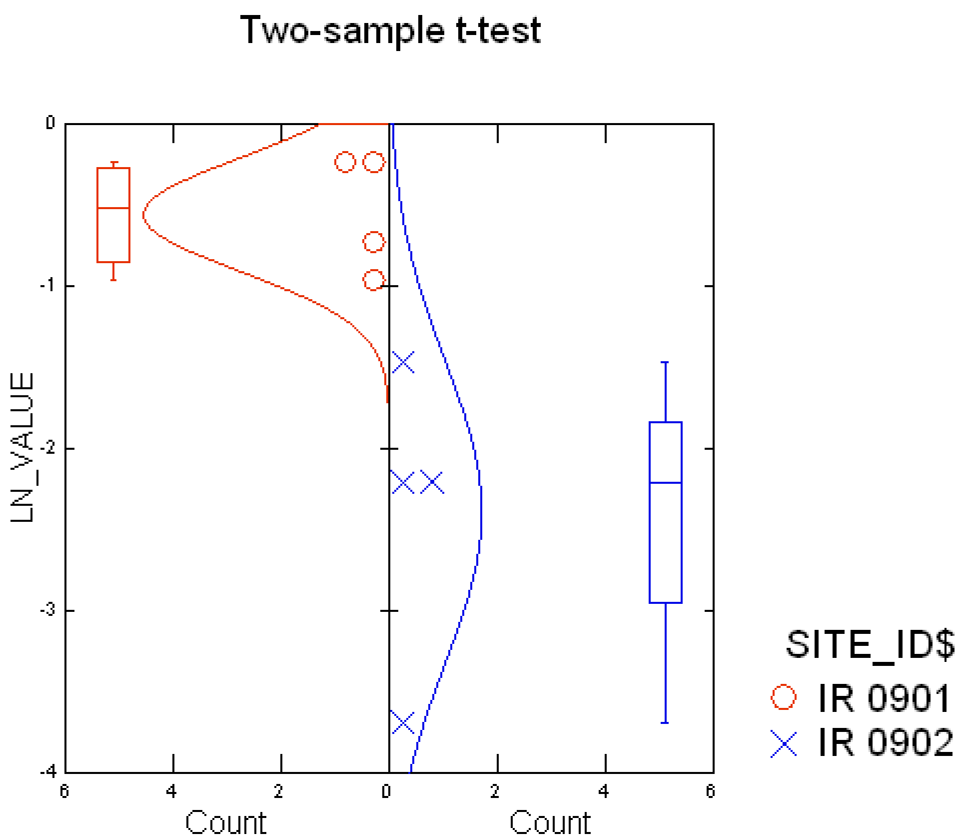
```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'PHOSPHORUS, TOTAL') AND (SITE_ID$ = 'IR 0901') OR
(PARAMETER$ = 'PHOSPHORUS, TOTAL') AND (SITE_ID$ = 'IR 0902')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

```
        ¦                 Standard
GROUP   ¦ N      Mean    Deviation
--------+----------------------
IR 0901 ¦ 4    -0.560        0.351
IR 0902 ¦ 4    -2.393        0.931
```

```
Separate Variance

Difference in Means          : 1.834
95.00% Confidence Interval : 0.429 to 3.239
t                            : 3.686
df                           : 3.834
p-value                      : 0.023

Pooled Variance
```

```
Difference in Means          : 1.834
95.00% Confidence Interval : 0.616 to 3.051
t                            : 3.686
df                           : 6.000
p-value                      : 0.010
```



▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'PHOSPHORUS, TOTAL') AND (SITE_ID$ = 'IR 0901') OR
(PARAMETER$ = 'PHOSPHORUS, TOTAL') AND (SITE_ID$ = 'IR 0903')
```

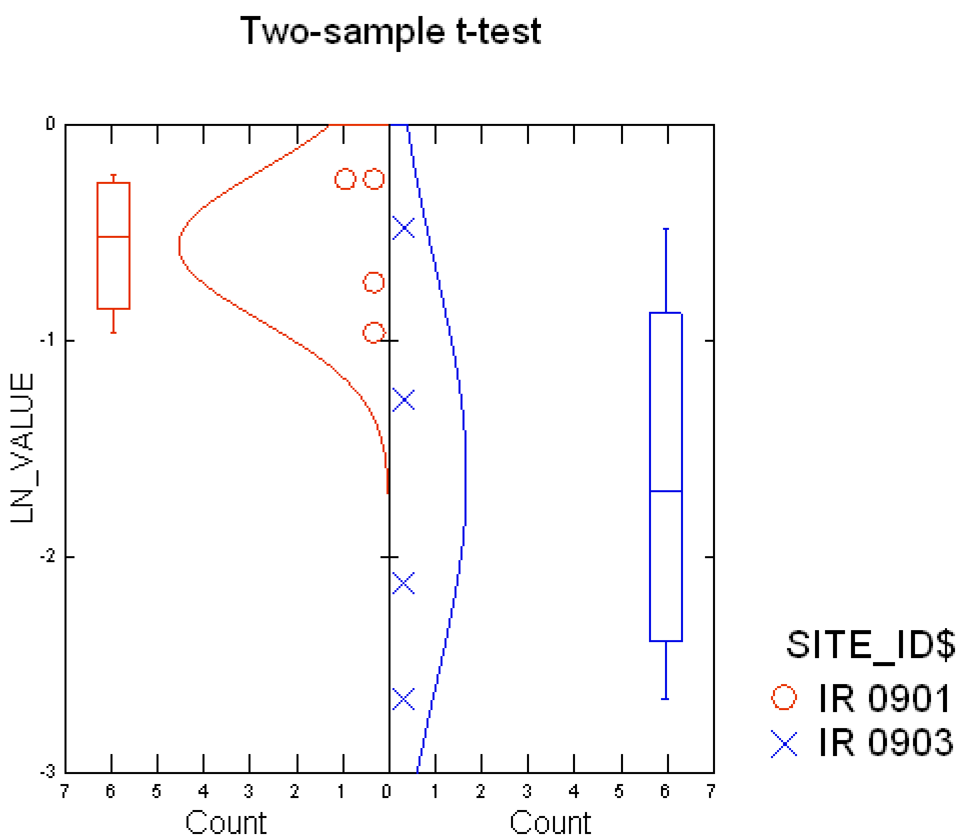
Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

GROUP	N	Mean	Standard Deviation
IR 0901	4	-0.560	0.351
IR 0903	4	-1.633	0.958

Separate Variance

```
Difference in Means          :  1.073
```

```
95.00% Confidence Interval : -0.375 to 2.521
t                          :  2.103
df                         :  3.789
p-value                    :  0.107

Pooled Variance

Difference in Means        :  1.073
95.00% Confidence Interval : -0.175 to 2.321
t                          :  2.103
df                         :  6.000
p-value                    :  0.080
```



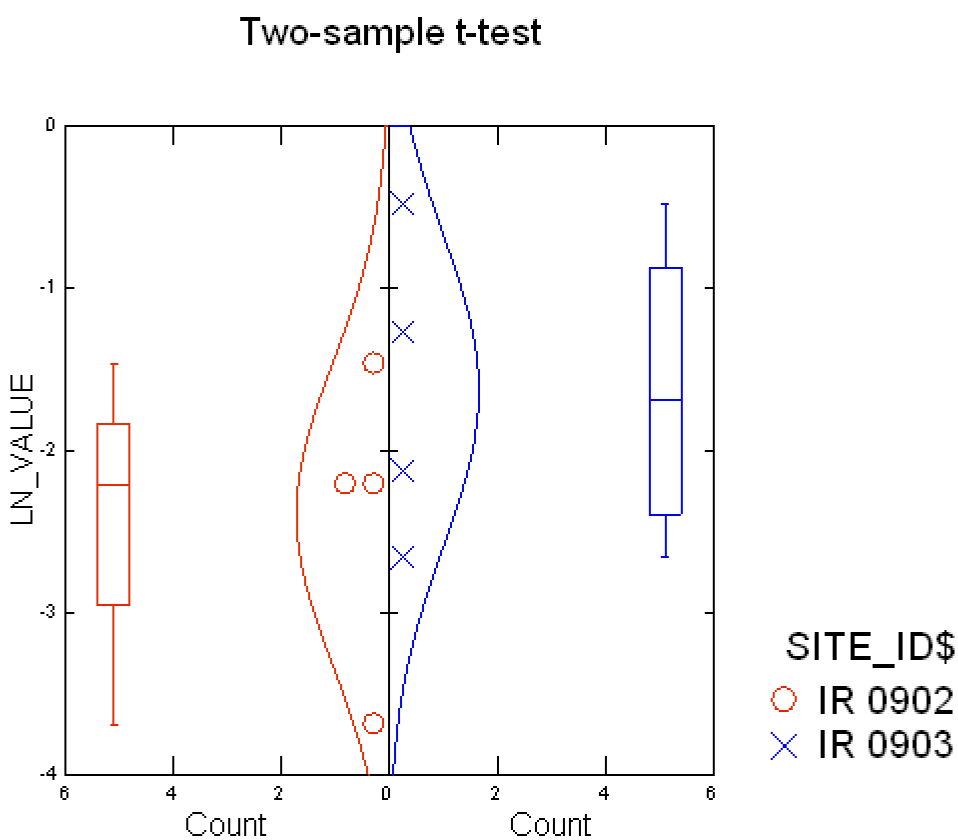
▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'PHOSPHORUS, TOTAL') AND (SITE_ID$ = 'IR 0902') OR
(PARAMETER$ = 'PHOSPHORUS, TOTAL') AND (SITE_ID$ = 'IR 0903')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

```
        ¦                Standard
GROUP   ¦ N      Mean    Deviation
```

```
--------+----------------------
IR 0902 ¦ 4    -2.393        0.931
IR 0903 ¦ 4    -1.633        0.958

Separate Variance

Difference in Means          : -0.761
95.00% Confidence Interval : -2.396 to 0.874
t                              : -1.139
df                             :  5.995
p-value                        :  0.298

Pooled Variance

Difference in Means          : -0.761
95.00% Confidence Interval : -2.395 to 0.874
t                              : -1.139
df                             :  6.000
p-value                        :  0.298
```

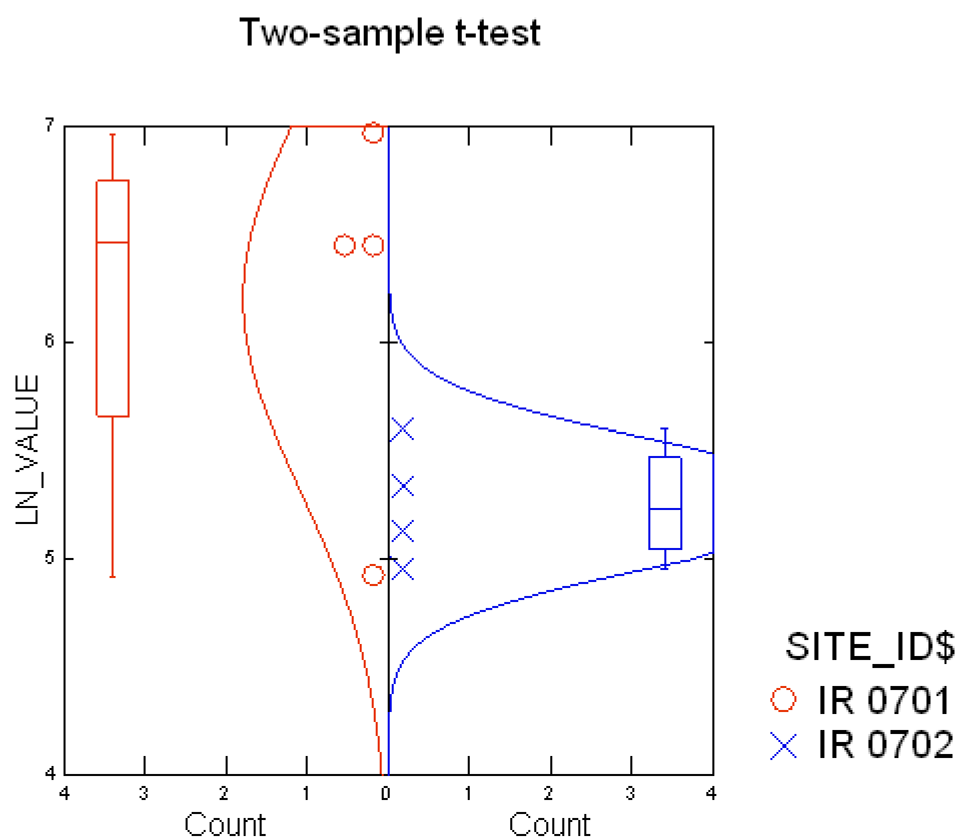


▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS') AND (SITE_ID$ = 'IR
0701') OR (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS') AND (SITE_ID$ = 'IR 0702')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

```
         ¦                Standard
GROUP    ¦ N     Mean    Deviation
---------+----------------------
IR 0701 ¦ 4    6.203        0.889
IR 0702 ¦ 4    5.255        0.277

Separate Variance

Difference in Means          :  0.947
95.00% Confidence Interval : -0.408 to 2.303
t                            :  2.035
df                           :  3.576
p-value                      :  0.120

Pooled Variance

Difference in Means          :  0.947
95.00% Confidence Interval : -0.192 to 2.087
t                            :  2.035
df                           :  6.000
p-value                      :  0.088
```



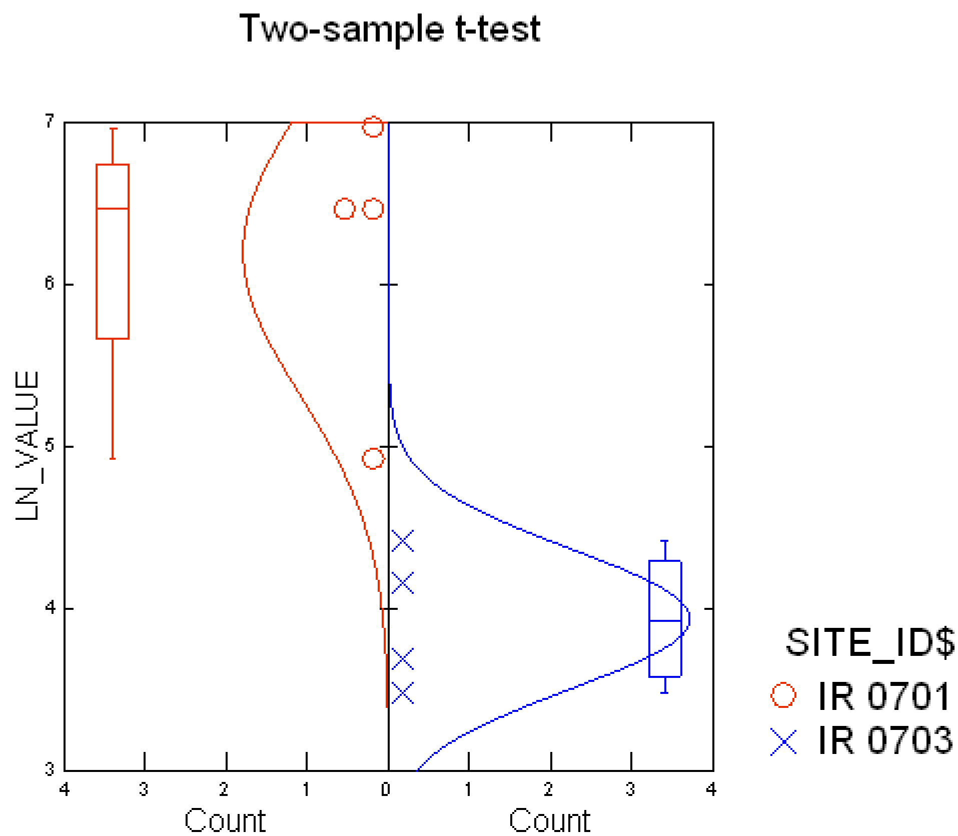
▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS') AND (SITE_ID$ = 'IR
0701') OR (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS') AND (SITE_ID$ = 'IR 0703')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

GROUP	N	Mean	Standard Deviation
IR 0701	4	6.203	0.889
IR 0703	4	3.938	0.429

```
Separate Variance

Difference in Means         : 2.265
95.00% Confidence Interval : 0.935 to 3.596
t                           : 4.589
df                          : 4.327
p-value                     : 0.008

Pooled Variance

Difference in Means         : 2.265
95.00% Confidence Interval : 1.057 to 3.473
t                           : 4.589
df                          : 6.000
p-value                     : 0.004
```



▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS') AND (SITE_ID$ = 'IR
0702') OR (PARAMETER$ = 'TOTAL SUSPENDED SOLIDS') AND (SITE_ID$ = 'IR 0703')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

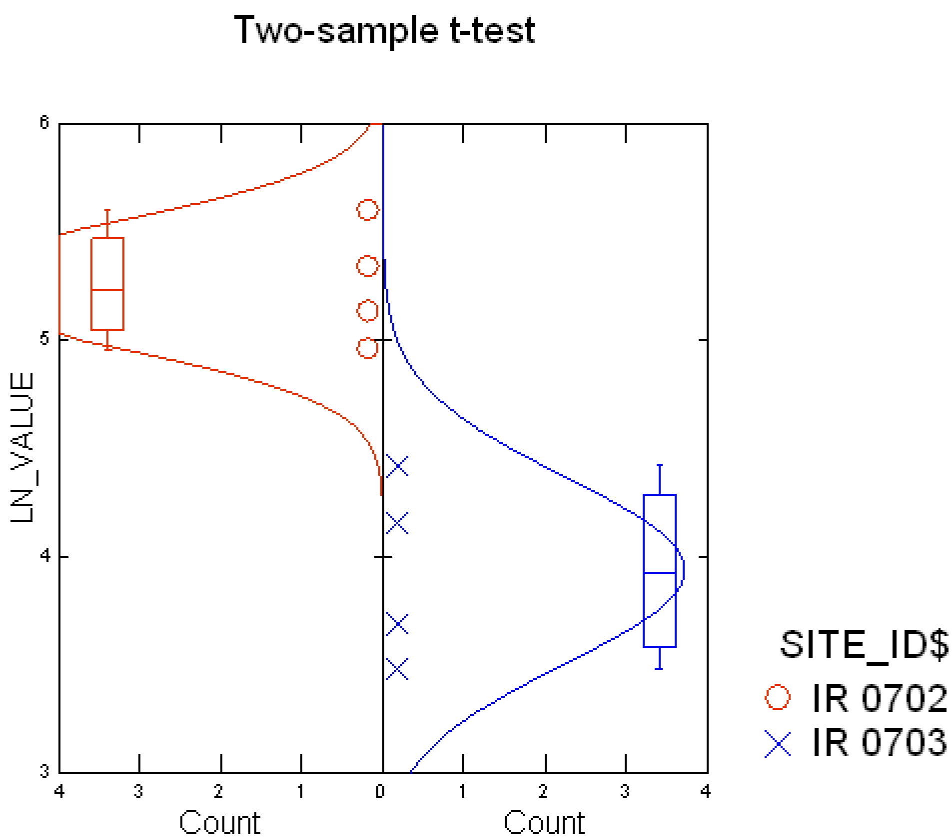
GROUP	N	Mean	Standard Deviation
IR 0702	4	5.255	0.277
IR 0703	4	3.938	0.429

Separate Variance

```
Difference in Means          : 1.318
95.00% Confidence Interval : 0.666 to 1.970
t                            : 5.159
df                           : 5.127
p-value                      : 0.003
```

Pooled Variance

```
Difference in Means          : 1.318
95.00% Confidence Interval : 0.693 to 1.943
t                            : 5.159
df                           : 6.000
p-value                      : 0.002
```



▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Zinc') AND (SITE_ID$ = 'IR 0801') OR (PARAMETER$ =
'Zinc') AND (SITE_ID$ = 'IR 0802')
```

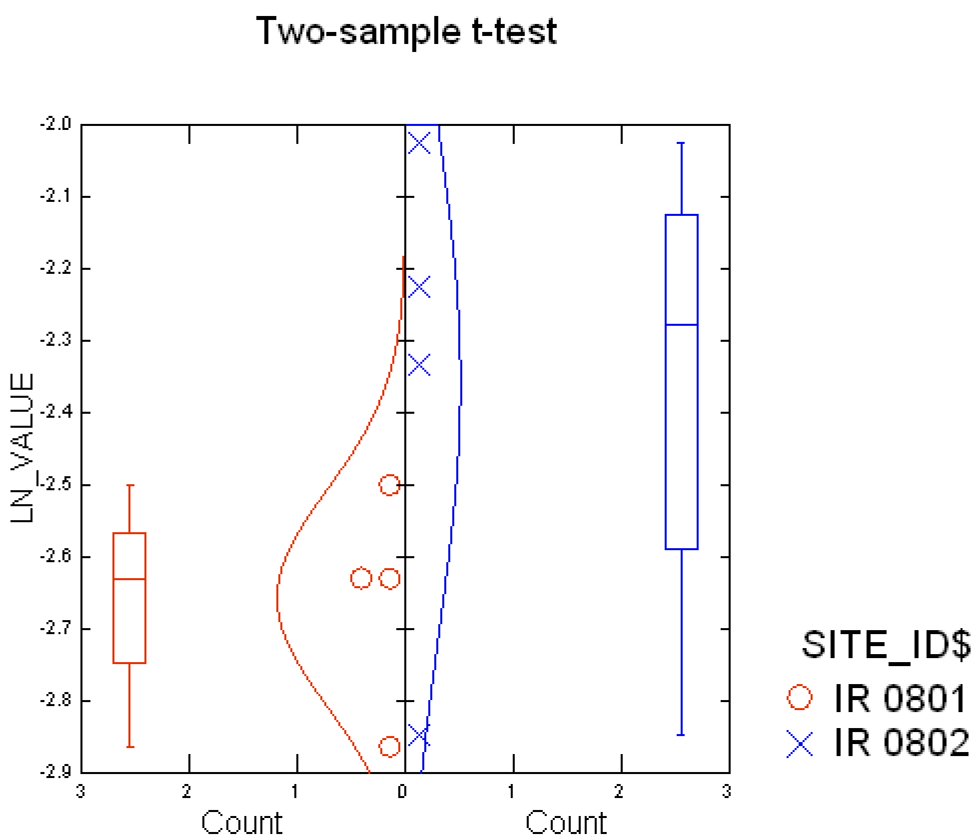
Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

GROUP	N	Mean	Standard Deviation
IR 0801	4	-2.657	0.151
IR 0802	4	-2.358	0.350

Separate Variance

```
Difference in Means          : -0.299
```

```
95.00% Confidence Interval : -0.825 to 0.227
t                          : -1.568
df                         :  4.083
p-value                    :  0.191

Pooled Variance

Difference in Means        : -0.299
95.00% Confidence Interval : -0.766 to 0.168
t                          : -1.568
df                         :  6.000
p-value                    :  0.168
```



▼Hypothesis Testing: Two-sample t-test

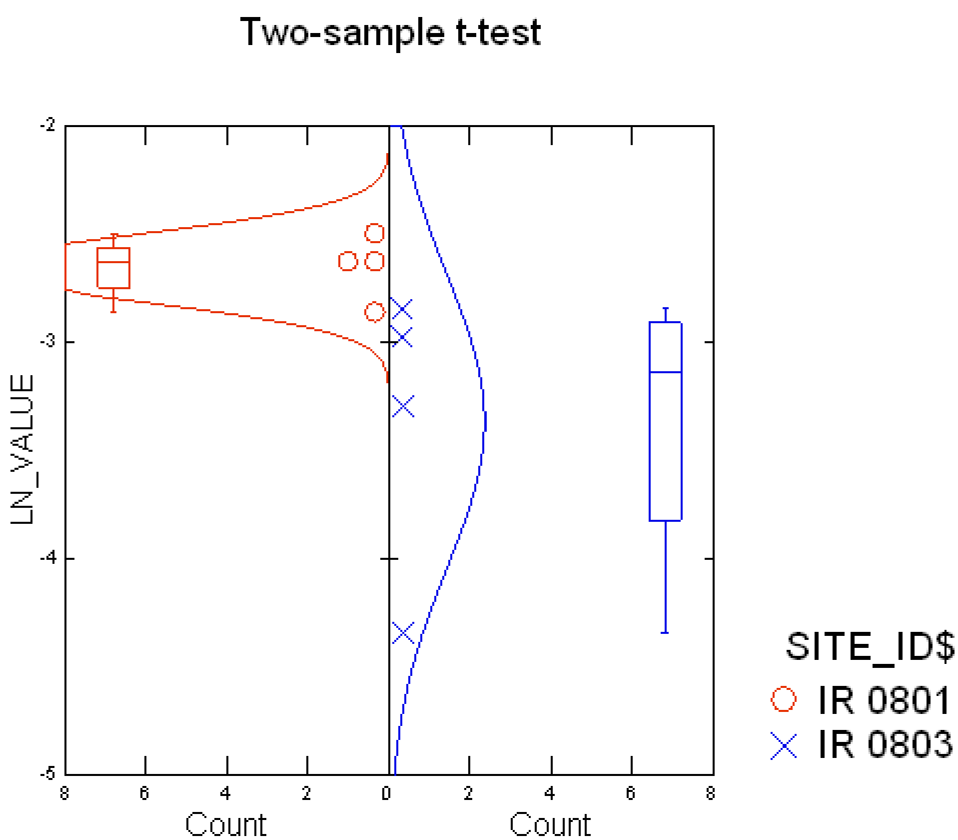
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Zinc') AND (SITE_ID$ = 'IR 0801') OR (PARAMETER$ = 'Zinc') AND (SITE_ID$ = 'IR 0803')

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

```
        ¦                Standard
GROUP   ¦ N      Mean    Deviation
```

```
--------+-----------------------
IR 0801 ¦ 4    -2.657        0.151
IR 0803 ¦ 4    -3.366        0.678
```

```
Separate Variance

Difference in Means          :  0.709
95.00% Confidence Interval : -0.343 to 1.760
t                            :  2.040
df                           :  3.298
p-value                      :  0.126

Pooled Variance

Difference in Means          :  0.709
95.00% Confidence Interval : -0.142 to 1.559
t                            :  2.040
df                           :  6.000
p-value                      :  0.087
```

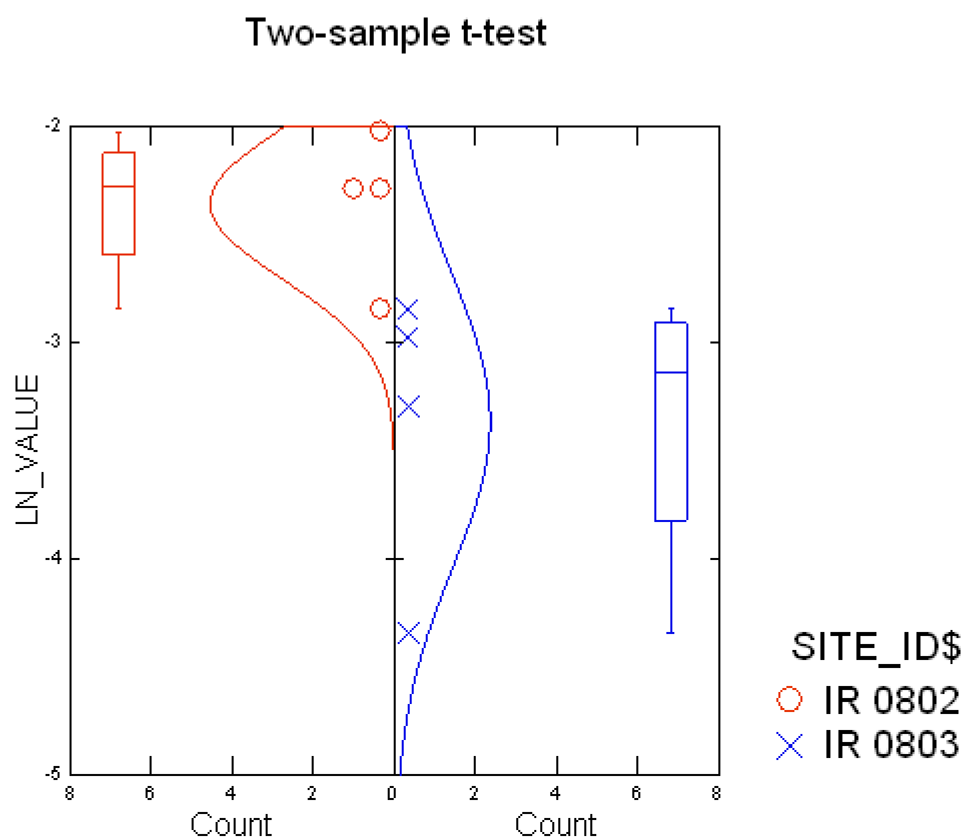


▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Zinc') AND (SITE_ID$ = 'IR 0802') OR (PARAMETER$ =
'Zinc') AND (SITE_ID$ = 'IR 0803')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

```
         ¦                 Standard
GROUP    ¦ N      Mean    Deviation
---------+-----------------------
IR 0802 ¦ 4    -2.358        0.350
IR 0803 ¦ 4    -3.366        0.678

Separate Variance

Difference in Means          :  1.008
95.00% Confidence Interval : -0.007 to 2.023
t                            :  2.641
df                           :  4.495
p-value                      :  0.051

Pooled Variance

Difference in Means          : 1.008
95.00% Confidence Interval : 0.074 to 1.942
t                            : 2.641
df                           : 6.000
p-value                      : 0.039
```



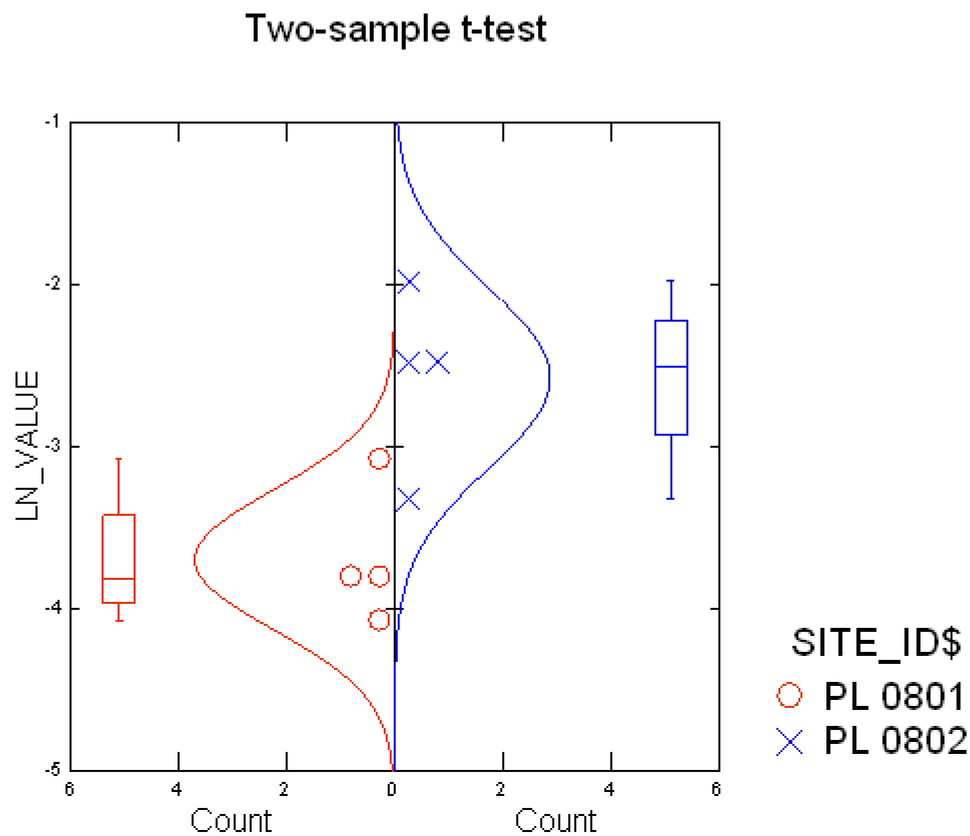
▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Zinc') AND (SITE_ID$ = 'PL 0801') OR (PARAMETER$ =
'Zinc') AND (SITE_ID$ = 'PL 0802')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

GROUP	N	Mean	Standard Deviation
PL 0801	4	-3.697	0.431
PL 0802	4	-2.577	0.556

```
Separate Variance

Difference in Means         : -1.120
95.00% Confidence Interval : -1.994 to -0.246
t                           : -3.184
df                          :  5.649
p-value                     :  0.021

Pooled Variance

Difference in Means         : -1.120
95.00% Confidence Interval : -1.981 to -0.259
t                           : -3.184
df                          :  6.000
p-value                     :  0.019
```



▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Zinc') AND (SITE_ID$ = 'PL 0801') OR (PARAMETER$ =
'Zinc') AND (SITE_ID$ = 'PL 0803')
```

Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

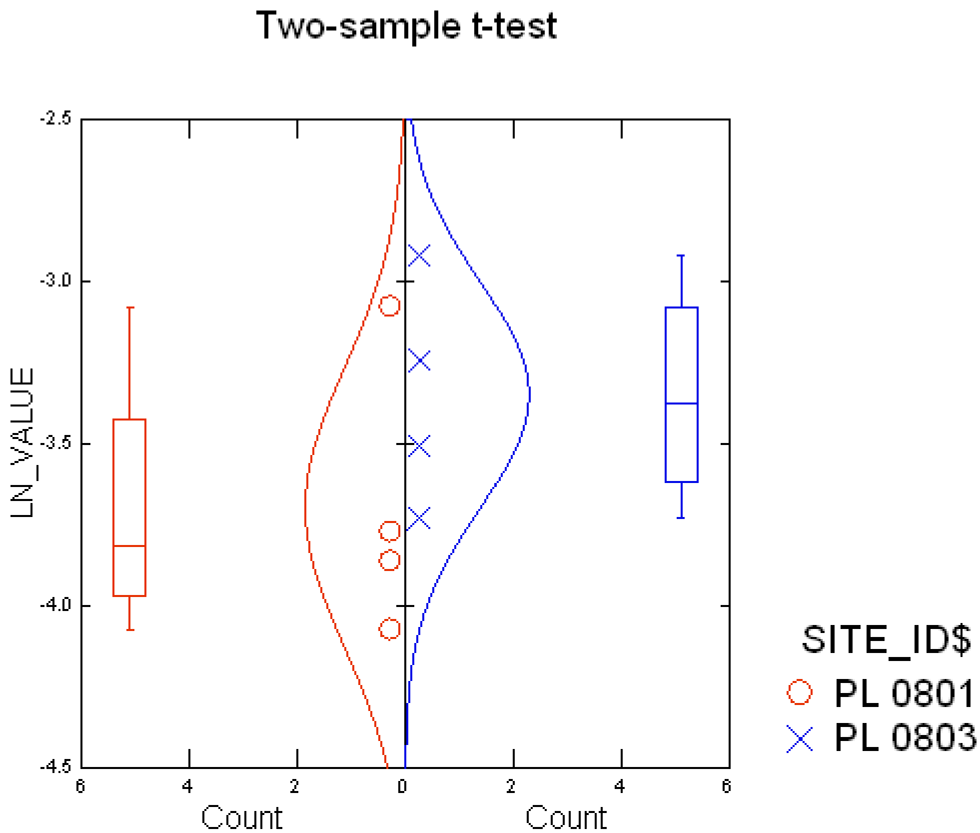
GROUP	N	Mean	Standard Deviation
PL 0801	4	-3.697	0.431
PL 0803	4	-3.350	0.349

Separate Variance

```
Difference in Means          : -0.347
95.00% Confidence Interval : -1.033 to 0.338
t                            : -1.253
df                           :  5.752
p-value                      :  0.259
```

Pooled Variance

```
Difference in Means          : -0.347
95.00% Confidence Interval : -1.026 to 0.331
t                            : -1.253
df                           :  6.000
p-value                      :  0.257
```



▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Zinc') AND (SITE_ID$ = 'PL 0802') OR (PARAMETER$ =
'Zinc') AND (SITE_ID$ = 'PL 0803')
```

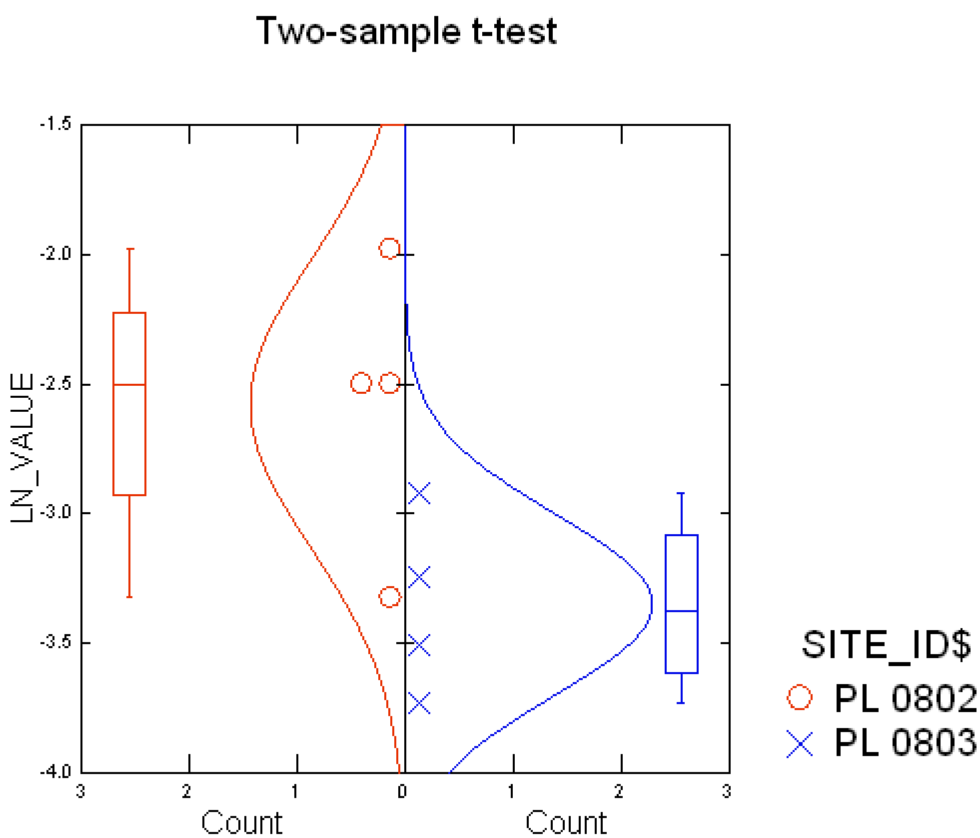
Two-sample t-test on LN_VALUE Grouped by SITE_ID$ vs Alternative = 'not equal'

GROUP	N	Mean	Standard Deviation
PL 0802	4	-2.577	0.556
PL 0803	4	-3.350	0.349

Separate Variance

```
Difference in Means          :  0.773
```

```
95.00% Confidence Interval : -0.069 to 1.615
t                          :  2.353
df                         :  5.047
p-value                    :  0.065

Pooled Variance

Difference in Means        :  0.773
95.00% Confidence Interval : -0.031 to 1.576
t                          :  2.353
df                         :  6.000
p-value                    :  0.057
```



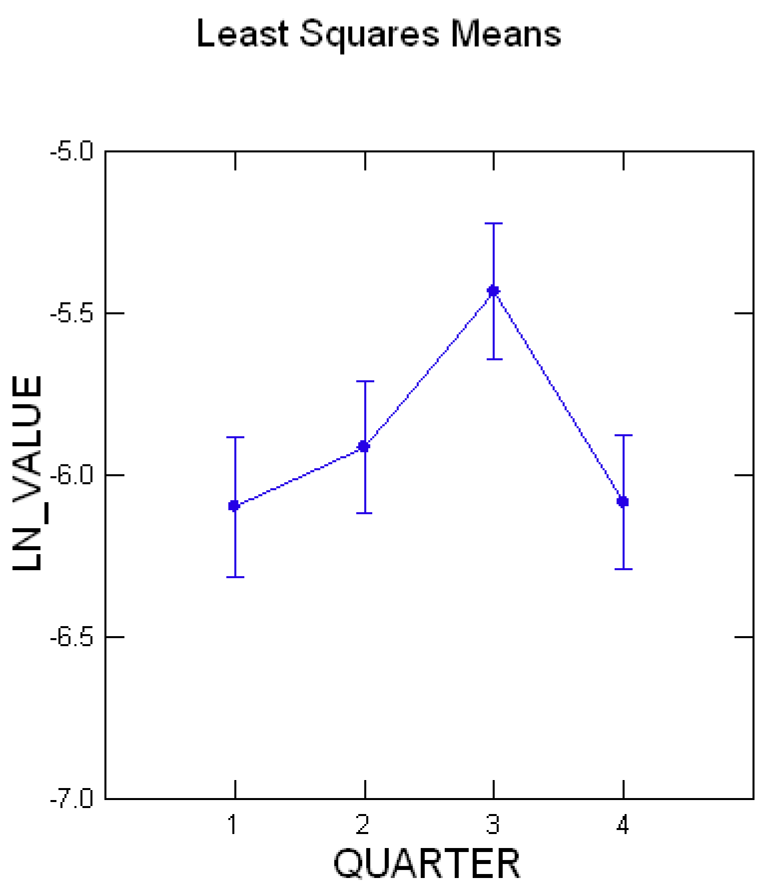
Appendix L

Seasonal Variability Comparison Statistical Tests and Results

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Arsenic') AND (ENTITY$ = 'COG2')

Effects coding used for categorical variables in model.
The categorical values encountered during processing are

Variables           ¦              Levels
--------------------+------------------------------
QUARTER (4 levels)  ¦ 1.000   2.000   3.000   4.000

1 case(s) are deleted due to missing data.

Dependent Variable  ¦ LN_VALUE
N                   ¦      285
Multiple R          ¦    0.286
Squared Multiple R  ¦    0.082
```

Analysis of Variance

```
Source   ¦ Type III SS    df   Mean Squares   F-ratio   p-value
---------+-----------------------------------------------------
QUARTER  ¦      20.253     3          6.751     8.371     0.000
Error    ¦     226.614   281          0.806
```




```
Durbin-Watson D Statistic    ¦ 1.743
First Order Autocorrelation  ¦ 0.125
```

Information Criteria

AIC	753.461
AIC (Corrected)	753.676
Schwarz's BIC	771.723

▼Hypothesis Tests

Post Hoc Test of LN_VALUE
Using least squares means.
Using model MSE of 0.806 with 281 df.

Tukey's Honestly-Significant-Difference Test

QUARTER(i)	QUARTER(j)	Difference	p-value	95.0% Confidence Interval Lower	Upper
1	2	-0.182	0.624	-0.571	0.207
1	3	-0.663	0.000	-1.058	-0.269
1	4	-0.013	1.000	-0.402	0.376
2	3	-0.481	0.007	-0.866	-0.096
2	4	0.169	0.661	-0.210	0.548
3	4	0.650	0.000	0.265	1.035

Bonferroni Test

QUARTER(i)	QUARTER(j)	Difference	p-value	95.0% Confidence Interval Lower	Upper
1	2	-0.182	1.000	-0.585	0.220
1	3	-0.663	0.000	-1.071	-0.255
1	4	-0.013	1.000	-0.416	0.389
2	3	-0.481	0.009	-0.879	-0.083
2	4	0.169	1.000	-0.223	0.561
3	4	0.650	0.000	0.252	1.048

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

Data for the following results were selected according to
SELECT (PARAMETER$ = 'COD') AND (ENTITY$ = 'COG2')

The categorical values encountered during processing are

Variables	Levels			
QUARTER (4 levels)	1.000	2.000	3.000	4.000

Dependent variable	LN_VALUE
Grouping variable	QUARTER

Group	Count	Rank Sum
1	67	7,446.000
2	74	10,308.000
3	70	11,515.500
4	74	11,485.500

```
Kruskal-Wallis Test Statistic : 16.557
p-value is 0.001 assuming Chi-square Distribution with 3 df
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'COD') AND (QUARTER = 1) OR (PARAMETER$ = 'COD')
AND (QUARTER = 2)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   2.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
1          67   4,360.000
2          74   5,651.000

Mann-Whitney U Test Statistic : 2,082.000
p-value                       : 0.101
Chi-square Approximation      : 2.687
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'COD') AND (QUARTER = 1) OR (PARAMETER$ = 'COD')
AND (QUARTER = 3)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   3.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
1          67   3,733.500
3          70   5,719.500

Mann-Whitney U Test Statistic : 1,455.500
p-value                       : 0.000
Chi-square Approximation      : 14.671
```

```
df                             : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'COD') AND (QUARTER = 1) OR (PARAMETER$ = 'COD')
AND (QUARTER = 4)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   4.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
1          67   3,908.500
4          74   6,102.500

Mann-Whitney U Test Statistic : 1,630.500
p-value                       : 0.000
Chi-square Approximation      : 12.273
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'COD') AND (QUARTER = 2) OR (PARAMETER$ = 'COD')
AND (QUARTER = 3)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 2.000   3.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
2          74   4,967.000
3          70   5,473.000

Mann-Whitney U Test Statistic : 2,192.000
p-value                       : 0.112
Chi-square Approximation      : 2.531
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'COD') AND (QUARTER = 2) OR (PARAMETER$ = 'COD')
AND (QUARTER = 4)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 2.000   4.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
2          74   5,240.000
4          74   5,786.000

Mann-Whitney U Test Statistic : 2,465.000
p-value                       : 0.295
Chi-square Approximation      : 1.096
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'COD') AND (QUARTER = 3) OR (PARAMETER$ = 'COD')
AND (QUARTER = 4)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 3.000   4.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
3          70   5,293.000
4          74   5,147.000

Mann-Whitney U Test Statistic : 2,808.000
p-value                       : 0.384
Chi-square Approximation      : 0.759
df                            : 1
```

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'E coli') AND (QUARTER = 1) OR (PARAMETER$ = 'E
coli') AND (QUARTER = 2)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   2.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
1          66   3,924.500
2          74   5,945.500

Mann-Whitney U Test Statistic : 1,713.500
p-value                       : 0.002
Chi-square Approximation      : 9.257
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'E coli') AND (QUARTER = 1) OR (PARAMETER$ = 'E
coli') AND (QUARTER = 3)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   3.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
1          66   3,102.000
3          67   5,809.000

Mann-Whitney U Test Statistic : 891.000
p-value                       : 0.000
Chi-square Approximation      : 35.324
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'E coli') AND (QUARTER = 1) OR (PARAMETER$ = 'E
coli') AND (QUARTER = 4)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   4.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count     Rank Sum
-------------------------
1          66   3,907.000
4          74   5,963.000

Mann-Whitney U Test Statistic : 1,696.000
p-value                       : 0.002
Chi-square Approximation      : 9.717
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'E coli') AND (QUARTER = 2) OR (PARAMETER$ = 'E
coli') AND (QUARTER = 3)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 2.000   3.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count     Rank Sum
-------------------------
2          74   4,150.000
3          67   5,861.000

Mann-Whitney U Test Statistic : 1,375.000
p-value                       : 0.000
Chi-square Approximation      : 20.778
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'E coli') AND (QUARTER = 2) OR (PARAMETER$ = 'E
coli') AND (QUARTER = 4)

The categorical values encountered during processing are

Variables           ¦    Levels
--------------------+--------------
QUARTER (2 levels) ¦ 2.000   4.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
2          74   5,201.000
4          74   5,825.000

Mann-Whitney U Test Statistic : 2,426.000
p-value                       : 0.231
Chi-square Approximation      : 1.432
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'E coli') AND (QUARTER = 3) OR (PARAMETER$ = 'E
coli') AND (QUARTER = 4)

The categorical values encountered during processing are

Variables           ¦    Levels
--------------------+--------------
QUARTER (2 levels) ¦ 3.000   4.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
3          67   5,339.000
4          74   4,672.000

Mann-Whitney U Test Statistic : 3,061.000
p-value                       : 0.016
Chi-square Approximation      : 5.779
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lab pH') AND (QUARTER = 1) OR (PARAMETER$ = 'Lab
pH') AND (QUARTER = 2)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   2.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
1          61   4,968.000
2          62   2,658.000

Mann-Whitney U Test Statistic : 3,077.000
p-value                       : 0.000
Chi-square Approximation      : 36.000
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lab pH') AND (QUARTER = 1) OR (PARAMETER$ = 'Lab
pH') AND (QUARTER = 3)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   3.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
1          61   4,653.000
3          57   2,368.000

Mann-Whitney U Test Statistic : 2,762.000
p-value                       : 0.000
Chi-square Approximation      : 30.392
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lab pH') AND (QUARTER = 1) OR (PARAMETER$ = 'Lab
pH') AND (QUARTER = 4)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   4.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
1          61   4,588.000
4          61   2,915.000

Mann-Whitney U Test Statistic : 2,697.000
p-value                       : 0.000
Chi-square Approximation      : 18.354
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lab pH') AND (QUARTER = 2) OR (PARAMETER$ = 'Lab
pH') AND (QUARTER = 3)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 2.000   3.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
2          62   3,309.500
3          57   3,830.500

Mann-Whitney U Test Statistic : 1,356.500
p-value                       : 0.029
Chi-square Approximation      : 4.769
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lab pH') AND (QUARTER = 2) OR (PARAMETER$ = 'Lab
pH') AND (QUARTER = 4)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 2.000   4.000

Dependent  variable  ¦ LN_VALUE
Grouping  variable   ¦ QUARTER

Group   Count    Rank Sum
-------------------------
2          62   3,227.500
4          61   4,398.500

Mann-Whitney U Test Statistic : 1,274.500
p-value                       : 0.002
Chi-square Approximation      : 9.729
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lab pH') AND (QUARTER = 3) OR (PARAMETER$ = 'Lab
pH') AND (QUARTER = 4)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 3.000   4.000

Dependent  variable  ¦ LN_VALUE
Grouping  variable   ¦ QUARTER

Group   Count    Rank Sum
-------------------------
3          57   3,172.500
4          61   3,848.500

Mann-Whitney U Test Statistic : 1,519.500
p-value                       : 0.238
Chi-square Approximation      : 1.392
df                            : 1
```

▼Analysis of Variance

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lead') AND (ENTITY$ = 'COG2')

Effects coding used for categorical variables in model.
```

The categorical values encountered during processing are

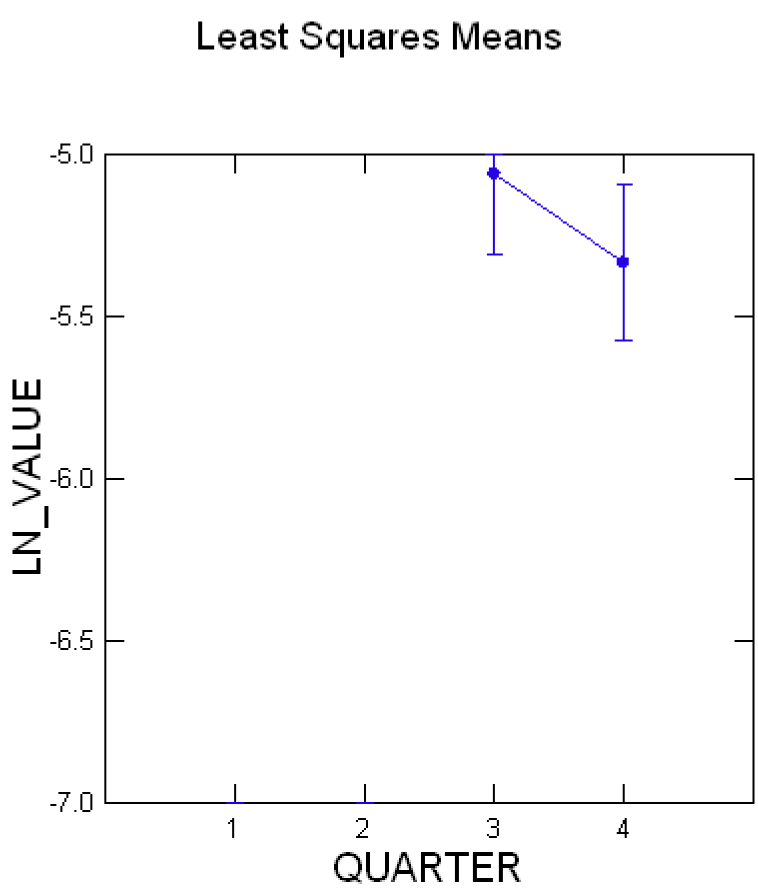
Variables	Levels
QUARTER (4 levels)	1.000 2.000 3.000 4.000

1 case(s) are deleted due to missing data.

Dependent Variable	LN_VALUE
N	285
Multiple R	0.169
Squared Multiple R	0.029

Analysis of Variance

Source	Type III SS	df	Mean Squares	F-ratio	p-value
QUARTER	9.096	3	3.032	2.758	0.043
Error	308.940	281	1.099		



*** WARNING *** :

Case 157,528 is an Outlier (Studentized Residual : 3.856)

Durbin-Watson D Statistic	1.584
First Order Autocorrelation	0.202

Information Criteria

AIC	841.783
AIC (Corrected)	841.998
Schwarz's BIC	860.045

▼Hypothesis Tests

Post Hoc Test of LN_VALUE
Using least squares means.
Using model MSE of 1.099 with 281 df.

Tukey's Honestly-Significant-Difference Test

QUARTER(i)	QUARTER(j)	Difference	p-value	95.0% Confidence Interval Lower	Upper
1	2	-0.102	0.939	-0.557	0.352
1	3	0.096	0.951	-0.365	0.556
1	4	0.370	0.155	-0.084	0.825
2	3	0.198	0.669	-0.251	0.647
2	4	0.473	0.031	0.030	0.916
3	4	0.275	0.396	-0.175	0.724

Bonferroni Test

QUARTER(i)	QUARTER(j)	Difference	p-value	95.0% Confidence Interval Lower	Upper
1	2	-0.102	1.000	-0.572	0.368
1	3	0.096	1.000	-0.380	0.572
1	4	0.370	0.223	-0.099	0.840
2	3	0.198	1.000	-0.266	0.663
2	4	0.473	0.039	0.015	0.931
3	4	0.275	0.704	-0.190	0.739

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

Data for the following results were selected according to
SELECT (PARAMETER$ = 'TN') AND (QUARTER = 1) OR (PARAMETER$ = 'TN') AND (QUARTER = 2)

The categorical values encountered during processing are

Variables	Levels	
QUARTER (2 levels)	1.000	2.000

Dependent variable	LN_VALUE
Grouping variable	QUARTER

Group	Count	Rank Sum
1	67	5,389.000
2	71	4,202.000

```
Mann-Whitney U Test Statistic : 3,111.000
p-value                       : 0.002
Chi-square Approximation      : 9.761
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'TN') AND (QUARTER = 1) OR (PARAMETER$ = 'TN') AND
(QUARTER = 3)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   3.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count     Rank Sum
-------------------------
1          67   5,121.500
3          70   4,331.500

Mann-Whitney U Test Statistic : 2,843.500
p-value                       : 0.032
Chi-square Approximation      : 4.611
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'TN') AND (QUARTER = 1) OR (PARAMETER$ = 'TN') AND
(QUARTER = 4)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 1.000   4.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count     Rank Sum
-------------------------
1          67   5,470.000
4          74   4,541.000
```

```
Mann-Whitney U Test Statistic : 3,192.000
p-value                       : 0.003
Chi-square Approximation      : 8.670
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'TN') AND (QUARTER = 2) OR (PARAMETER$ = 'TN') AND
(QUARTER = 3)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 2.000   3.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
2          71   4,607.000
3          70   5,404.000

Mann-Whitney U Test Statistic : 2,051.000
p-value                       : 0.073
Chi-square Approximation      : 3.213
df                            : 1
```

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'TN') AND (QUARTER = 2) OR (PARAMETER$ = 'TN') AND
(QUARTER = 4)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 2.000   4.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
2          71   4,924.500
4          74   5,660.500

Mann-Whitney U Test Statistic : 2,368.500
```

```
p-value                        : 0.305
Chi-square Approximation       : 1.051
df                             : 1
```

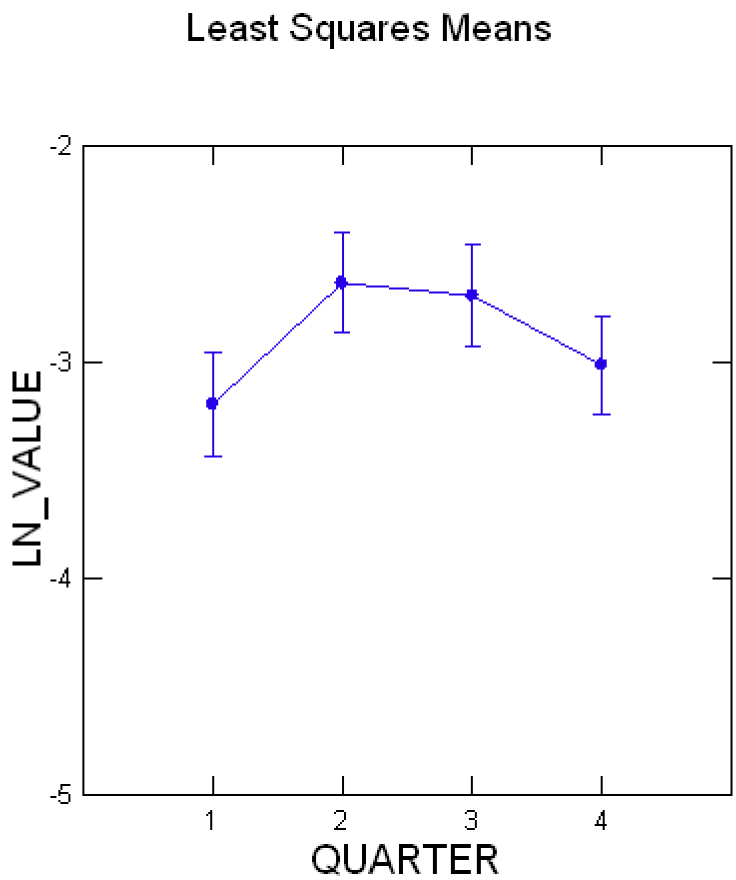
▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'TN') AND (QUARTER = 3) OR (PARAMETER$ = 'TN') AND
(QUARTER = 4)

The categorical values encountered during processing are

Variables          ¦    Levels
-------------------+--------------
QUARTER (2 levels) ¦ 3.000   4.000

Dependent variable  ¦ LN_VALUE
Grouping  variable  ¦ QUARTER

Group   Count    Rank Sum
-------------------------
3          70   5,244.500
4          74   5,195.500

Mann-Whitney U Test Statistic : 2,759.500
p-value                       : 0.498
Chi-square Approximation      : 0.460
df                            : 1


Data for the following results were selected according to
      SELECT (PARAMETER$ = 'DP') AND (ENTITY$ = 'COG2')

Effects coding used for categorical variables in model.
The categorical values encountered during processing are

Variables          ¦             Levels
-------------------+------------------------------
QUARTER (4 levels) ¦ 1.000   2.000   3.000   4.000

2 case(s) are deleted due to missing data.

Dependent Variable ¦ LN_VALUE
N                  ¦      284
Multiple R         ¦    0.224
Squared Multiple R ¦    0.050
```

Analysis of Variance

```
Source   ¦ Type III SS    df   Mean Squares   F-ratio   p-value
---------+-----------------------------------------------------
QUARTER  ¦      14.901     3          4.967     4.947     0.002
Error    ¦     281.098   280          1.004
```




```
*** WARNING *** :

Case 157,935 is an Outlier (Studentized Residual : 4.213)

Durbin-Watson D Statistic   ¦ 1.888
First Order Autocorrelation ¦ 0.054
```

Information Criteria

```
AIC               ¦ 813.040
AIC (Corrected)   ¦ 813.256
Schwarz's BIC     ¦ 831.285
```

▼Hypothesis Tests

```
Post Hoc Test of LN_VALUE
Using least squares means.
Using model MSE of 1.004 with 280 df.
```

Tukey's Honestly-Significant-Difference Test

QUARTER(i)	QUARTER(j)	Difference	p-value	95.0% Confidence Interval Lower	Upper
1	2	-0.562	0.005	-0.997	-0.126
1	3	-0.503	0.017	-0.943	-0.063
1	4	-0.181	0.706	-0.615	0.253
2	3	0.059	0.985	-0.372	0.490
2	4	0.381	0.097	-0.044	0.805
3	4	0.322	0.217	-0.107	0.751

Bonferroni Test

QUARTER(i)	QUARTER(j)	Difference	p-value	95.0% Confidence Interval Lower	Upper
1	2	-0.562	0.006	-1.012	-0.112
1	3	-0.503	0.022	-0.958	-0.048
1	4	-0.181	1.000	-0.630	0.268
2	3	0.059	1.000	-0.386	0.504
2	4	0.381	0.132	-0.058	0.820
3	4	0.322	0.330	-0.122	0.766

▼Analysis of Variance

Data for the following results were selected according to
SELECT (PARAMETER$ = 'Total Coliforms') AND (ENTITY$ = 'COG2')

Effects coding used for categorical variables in model.
The categorical values encountered during processing are

Variables	Levels			
QUARTER (4 levels)	1.000	2.000	3.000	4.000

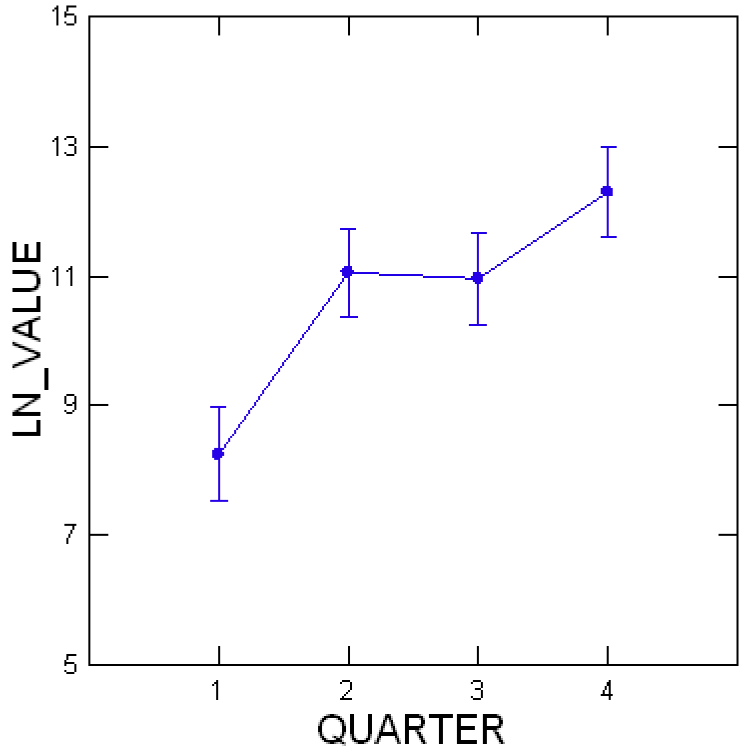
5 case(s) are deleted due to missing data.

Dependent Variable	LN_VALUE
N	281
Multiple R	0.443
Squared Multiple R	0.196

Analysis of Variance

Source	Type III SS	df	Mean Squares	F-ratio	p-value
QUARTER	600.956	3	200.319	22.492	0.000
Error	2,467.000	277	8.906		

Least Squares Means




```
*** WARNING *** :

Case 157,838 is an Outlier (Studentized Residual : -4.042)
Case 157,910 is an Outlier (Studentized Residual : -4.042)
Case 157,981 is an Outlier (Studentized Residual : -4.042)

Durbin-Watson D Statistic    ¦ 1.569
First Order Autocorrelation ¦ 0.207
```

Information Criteria

```
AIC             ¦ 1,417.889
AIC (Corrected) ¦ 1,418.107
Schwarz's BIC   ¦ 1,436.081
```

▼Hypothesis Tests

Post Hoc Test of LN_VALUE
Using least squares means.
Using model MSE of 8.906 with 277 df.

Tukey's Honestly-Significant-Difference Test

QUARTER(i)	QUARTER(j)	Difference	p-value	95.0% Confidence Interval Lower	Upper
1	2	-2.810	0.000	-4.108	-1.512
1	3	-2.717	0.000	-4.046	-1.387
1	4	-4.054	0.000	-5.352	-2.756
2	3	0.093	0.998	-1.199	1.386
2	4	-1.244	0.055	-2.505	0.016
3	4	-1.338	0.039	-2.630	-0.045

Bonferroni Test

QUARTER(i)	QUARTER(j)	Difference	p-value	95.0% Confidence Interval Lower	Upper
1	2	-2.810	0.000	-4.153	-1.467
1	3	-2.717	0.000	-4.092	-1.341
1	4	-4.054	0.000	-5.397	-2.712
2	3	0.093	1.000	-1.244	1.431
2	4	-1.244	0.071	-2.548	0.060
3	4	-1.338	0.050	-2.675	0.000

Appendix M

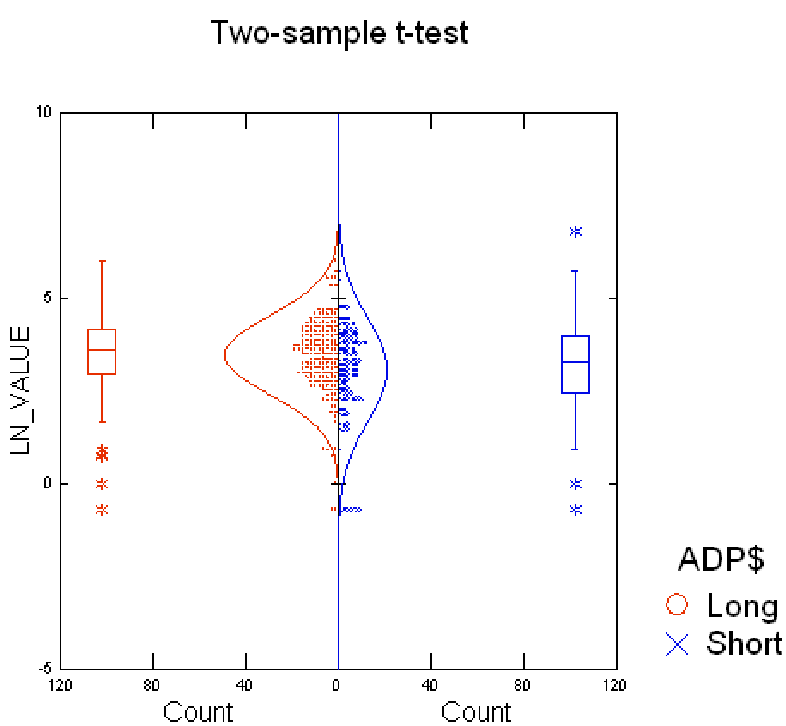
Antecedent Dry Period Comparison Statistical Tests and Results

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Chemical Oxygen Demand') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by ADP$ vs Alternative = 'not equal'

GROUP	N	Mean	Standard Deviation
Long	183	3.471	1.063
Short	102	3.070	1.395

```
Separate Variance

Difference in Means         :   0.401
95.00% Confidence Interval  :   0.088 to 0.715
t                           :   2.526
df                          : 167.242
p-value                     :   0.012

Pooled Variance

Difference in Means         :   0.401
95.00% Confidence Interval  :   0.112 to 0.691
t                           :   2.725
df                          : 283.000
p-value                     :   0.007
```



▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Chromium') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by ADP$ vs Alternative = 'not equal'

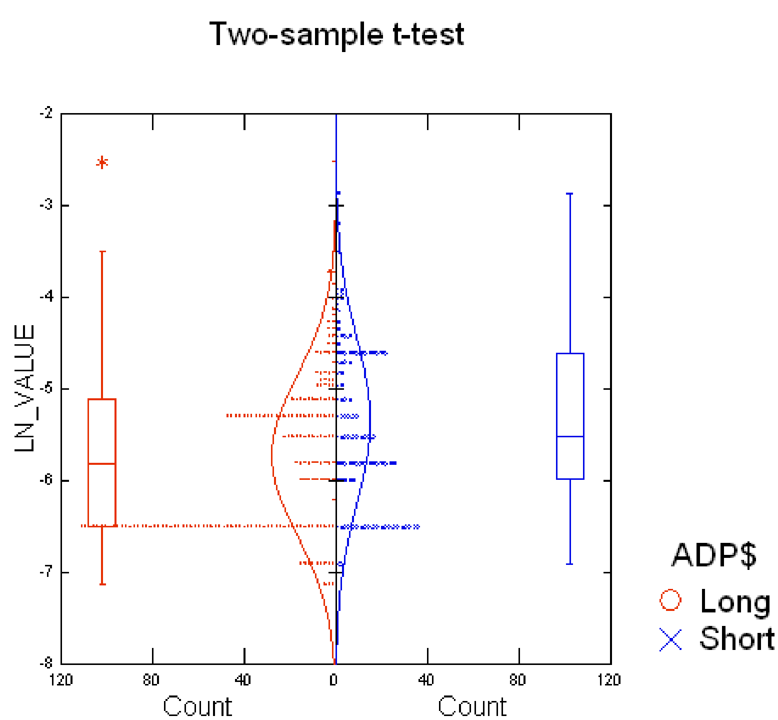
GROUP	N	Mean	Standard Deviation
Long	183	-5.724	0.867
Short	102	-5.349	0.908

Separate Variance

```
Difference in Means          :  -0.374
95.00% Confidence Interval :  -0.592 to -0.157
t                            :  -3.390
df                           : 201.043
p-value                      :   0.001
```

Pooled Variance

```
Difference in Means          :  -0.374
95.00% Confidence Interval :  -0.589 to -0.160
t                            :  -3.434
df                           : 283.000
p-value                      :   0.001
```



▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Total Nitrogen') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by ADP$ vs Alternative = 'not equal'

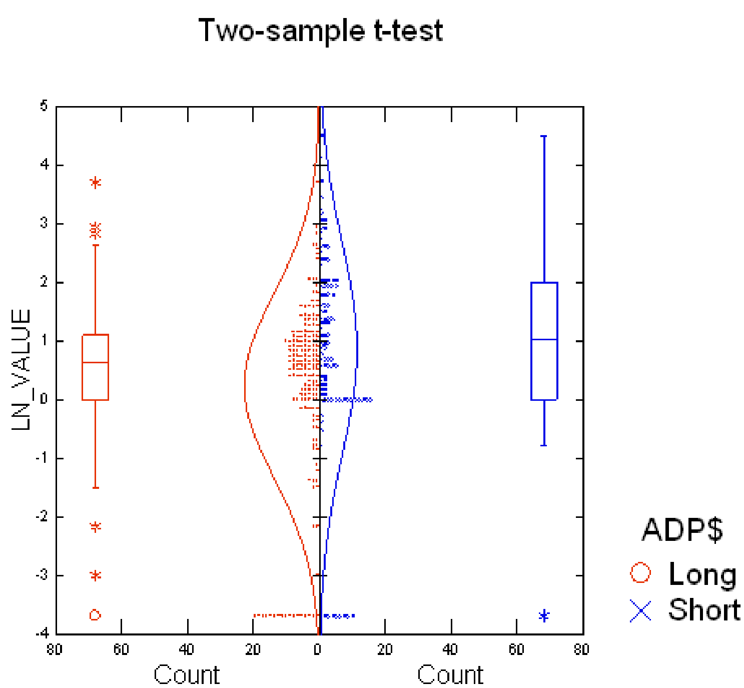
GROUP	N	Mean	Standard Deviation
Long	180	0.241	1.573
Short	102	0.866	1.801

Separate Variance

```
Difference in Means          :  -0.625
95.00% Confidence Interval   :  -1.046 to -0.204
t                            :  -2.930
df                           : 187.409
p-value                      :   0.004
```

Pooled Variance

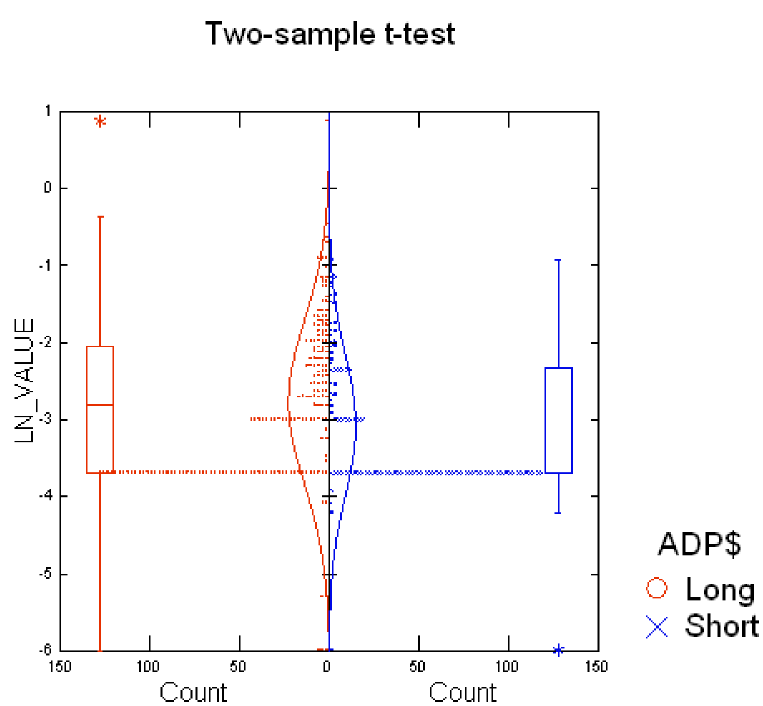
```
Difference in Means          :  -0.625
95.00% Confidence Interval   :  -1.030 to -0.221
t                            :  -3.041
df                           : 280.000
p-value                      :   0.003
```



```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Phosphorus, Dissolved') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by ADP$ vs Alternative = 'not equal'

```
      ¦                      Standard
GROUP ¦   N       Mean      Deviation
------+-------------------------
Long  ¦ 182    -2.772         1.063
Short ¦ 102    -3.069         0.921

Separate Variance

Difference in Means           :    0.297
95.00% Confidence Interval :    0.060 to 0.534
t                             :    2.464
df                            : 235.146
p-value                       :    0.014

Pooled Variance

Difference in Means           :    0.297
95.00% Confidence Interval :    0.050 to 0.544
t                             :    2.367
df                            : 282.000
p-value                       :    0.019
```



Appendix N

Storm Size Comparison Statistical Tests and Results

Kruskal-Wallis One-way Analysis of Variance for 159,993 Cases

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Chemical Oxygen Demand') AND (ENTITY$ = 'COG2')

The categorical values encountered during processing are

Variables            ¦    Levels
---------------------+--------------
STM_SIZE$ (2 levels) ¦ Large   Small

Dependent  variable  ¦ LN_VALUE
Grouping  variable   ¦ STM_SIZE$

Group    Count      Rank Sum
--------------------------
Large     141    21,983.000
Small     144    18,772.000

Mann-Whitney U Test Statistic : 11,972.000
p-value                       : 0.009
Chi-square Approximation      : 6.845
df                            : 1
```

►Hypothesis Testing: Two-sample t-test

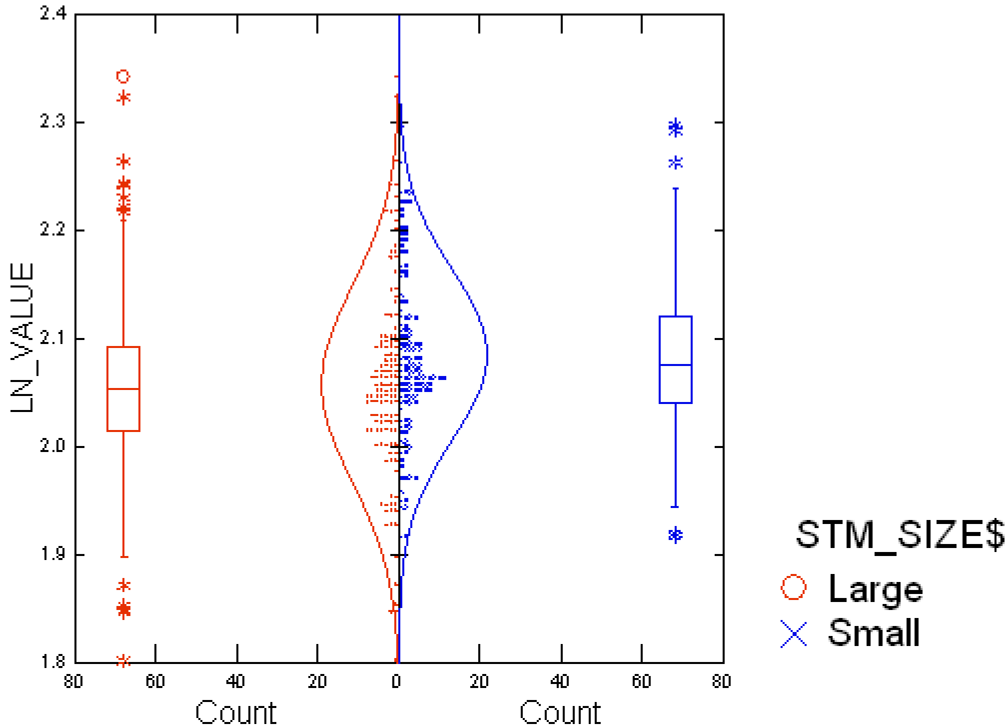
▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Field pH') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by STM_SIZE$ vs Alternative = 'not equal'

```
      ¦                 Standard
GROUP ¦   N     Mean   Deviation
------+------------------------
Large ¦ 130   2.058       0.090
Small ¦ 128   2.085       0.078

Separate Variance

Difference in Means         :  -0.027
95.00% Confidence Interval  :  -0.048 to -0.006
t                           :  -2.565
df                          : 252.078
p-value                     :   0.011

Pooled Variance

Difference in Means         :  -0.027
95.00% Confidence Interval  :  -0.048 to -0.006
t                           :  -2.563
df                          : 256.000
p-value                     :   0.011
```

Two-sample t-test



▼Hypothesis Testing: Two-sample t-test

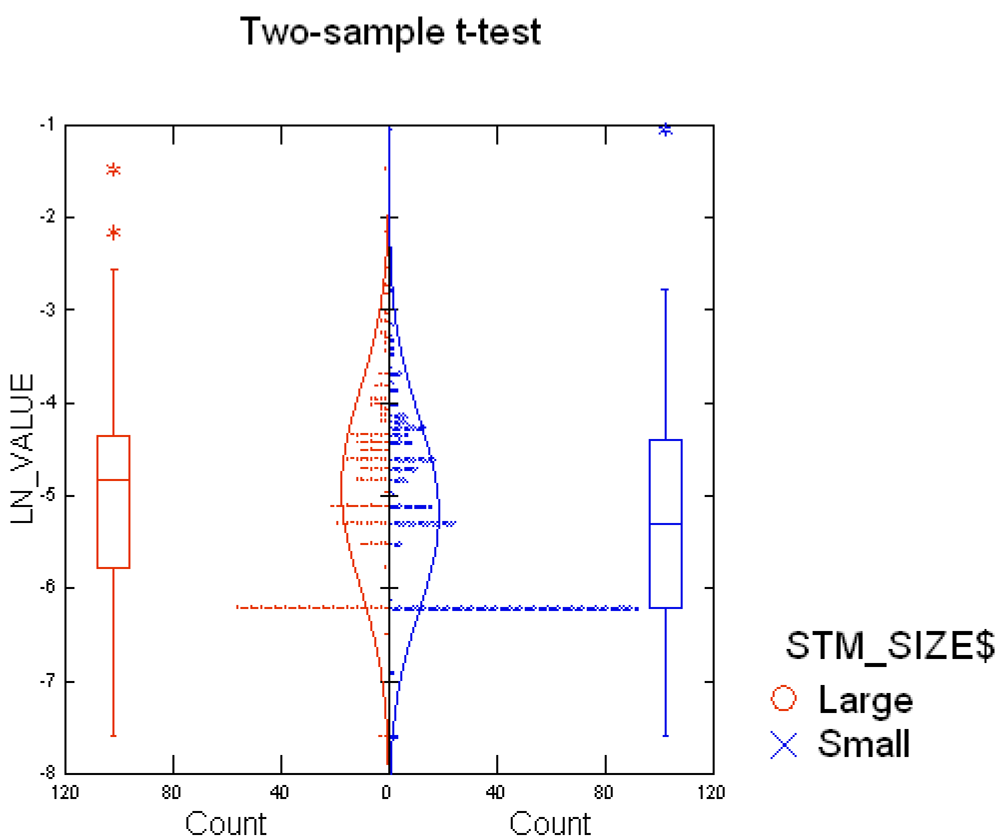
```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Lead') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by STM_SIZE$ vs Alternative = 'not equal'

GROUP	N	Mean	Standard Deviation
Large	141	-4.915	1.061
Small	144	-5.197	1.040

```
Separate Variance

Difference in Means          :   0.283
95.00% Confidence Interval :   0.038 to 0.528
t                            :   2.270
df                           : 282.537
p-value                      :   0.024
```

```
Pooled Variance

Difference in Means          :    0.283
95.00% Confidence Interval :    0.038 to 0.528
t                            :    2.270
df                           : 283.000
p-value                      :    0.024
```



▼Hypothesis Testing: Two-sample t-test

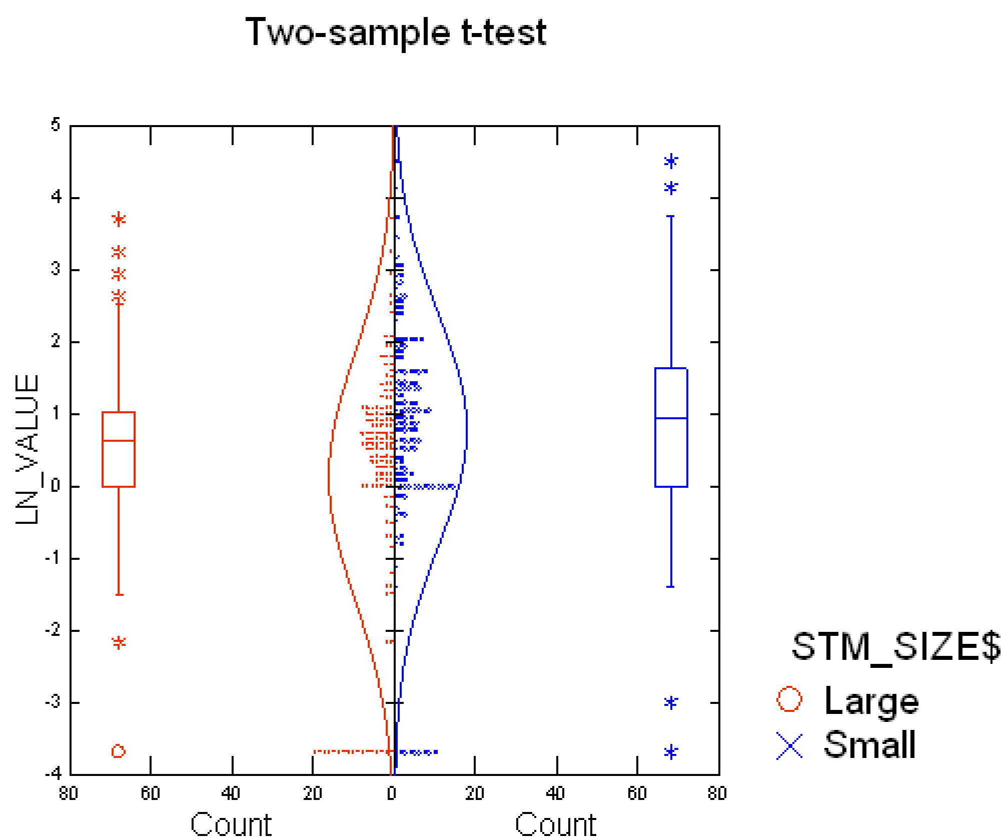
```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Nitrogen, Total') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by STM_SIZE$ vs Alternative = 'not equal'

GROUP	N	Mean	Standard Deviation
Large	138	0.137	1.695
Small	144	0.784	1.614

```
Separate Variance
```

```
Difference in Means            :  -0.646
95.00% Confidence Interval :  -1.035 to -0.258
t                              :  -3.277
df                             : 277.663
p-value                        :   0.001

Pooled Variance

Difference in Means            :  -0.646
95.00% Confidence Interval :  -1.034 to -0.259
t                              :  -3.281
df                             : 280.000
p-value                        :   0.001
```



▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Phosphorus, Dissolved') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by STM_SIZE$ vs Alternative = 'not equal'

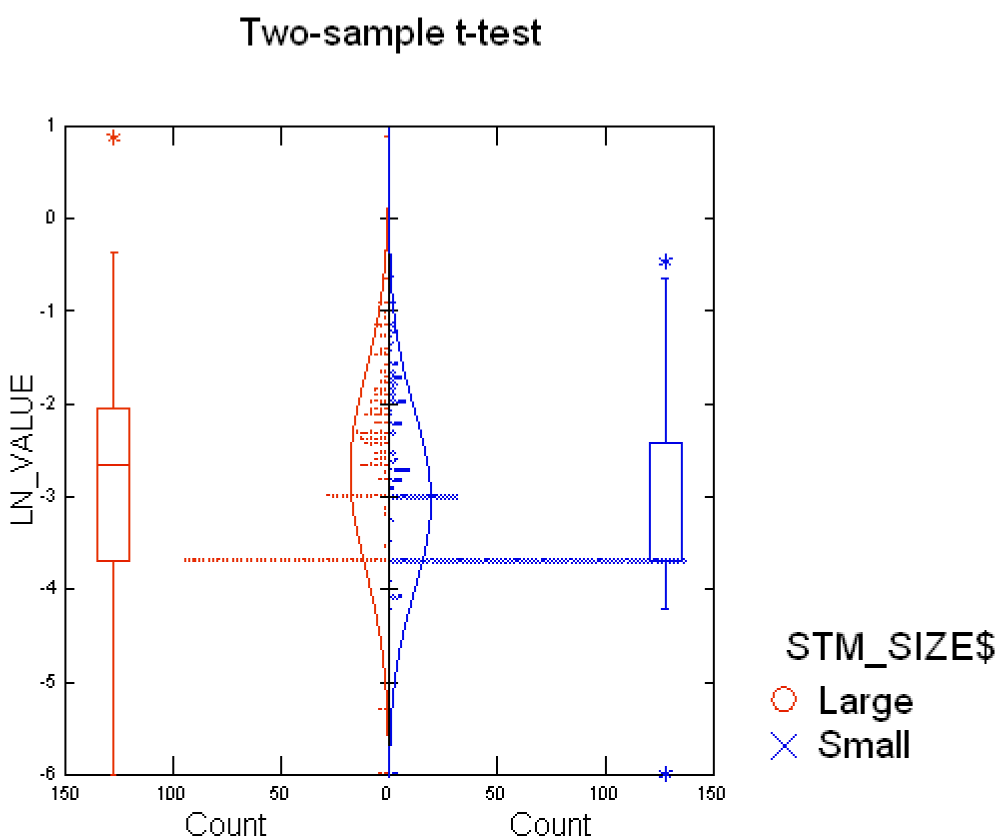
GROUP	N	Mean	Standard Deviation
Large	141	-2.718	1.045
Small	143	-3.037	0.979

Separate Variance

```
Difference in Means          :   0.319
95.00% Confidence Interval :   0.083 to 0.556
t                            :   2.659
df                           : 280.240
p-value                      :   0.008
```

Pooled Variance

```
Difference in Means          :   0.319
95.00% Confidence Interval :   0.083 to 0.556
t                            :   2.660
df                           : 282.000
p-value                      :   0.008
```



▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Phosphorus, Total') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by STM_SIZE$ vs Alternative = 'not equal'

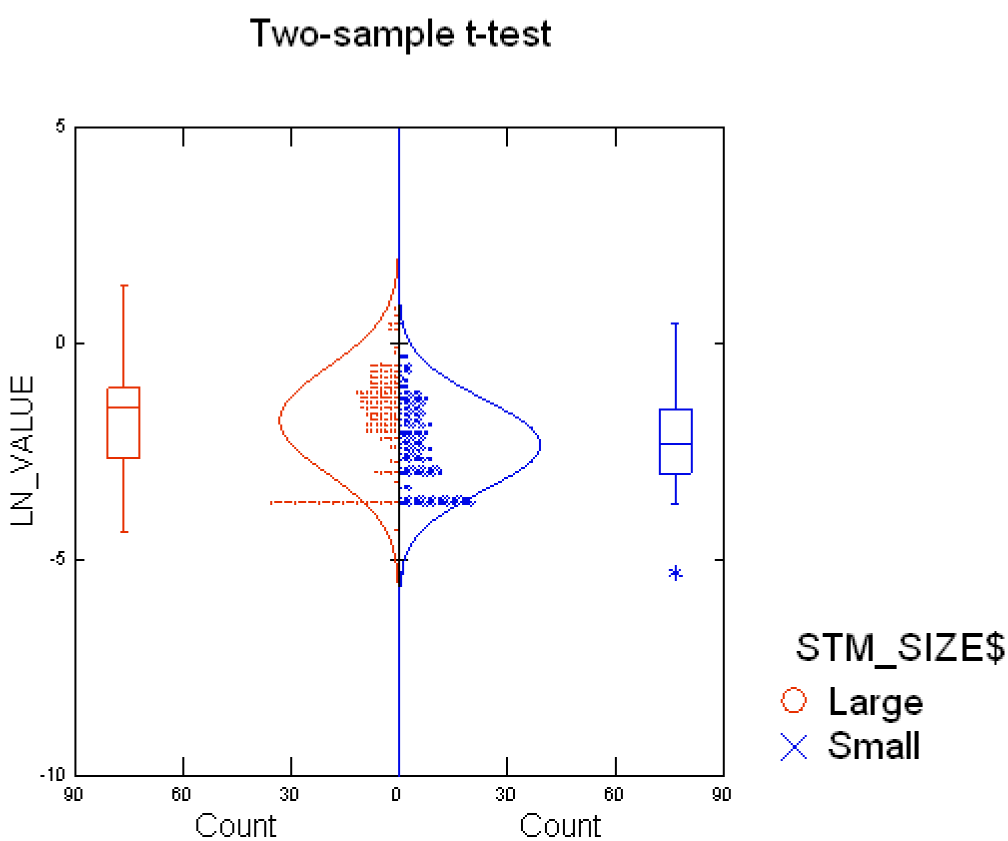
```
      ¦                     Standard
GROUP ¦   N      Mean      Deviation
------+-------------------------
Large ¦ 141    -1.779        1.211
Small ¦ 143    -2.341        1.042
```

Separate Variance

```
Difference in Means          :    0.562
95.00% Confidence Interval :    0.297 to 0.826
t                            :    4.186
df                           : 274.676
p-value                      :    0.000
```

Pooled Variance

```
Difference in Means          :    0.562
95.00% Confidence Interval :    0.298 to 0.825
t                            :    4.190
df                           : 282.000
p-value                      :    0.000
```



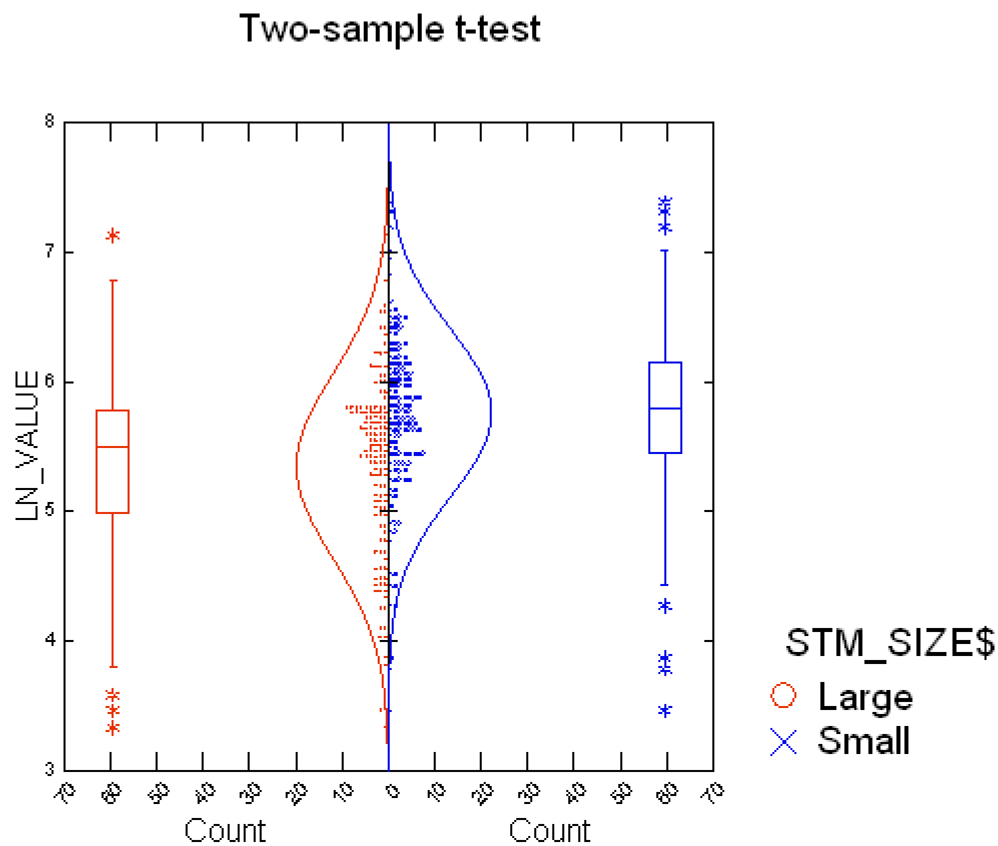
▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Total Dissolved Solids') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by STM_SIZE$ vs Alternative = 'not equal'

GROUP	N	Mean	Standard Deviation
Large	141	5.350	0.708
Small	143	5.760	0.642

```
Separate Variance

Difference in Means         :  -0.411
95.00% Confidence Interval :  -0.569 to -0.253
t                           :  -5.123
df                          : 278.553
p-value                     :   0.000

Pooled Variance

Difference in Means         :  -0.411
95.00% Confidence Interval :  -0.569 to -0.253
t                           :  -5.126
df                          : 282.000
p-value                     :   0.000
```



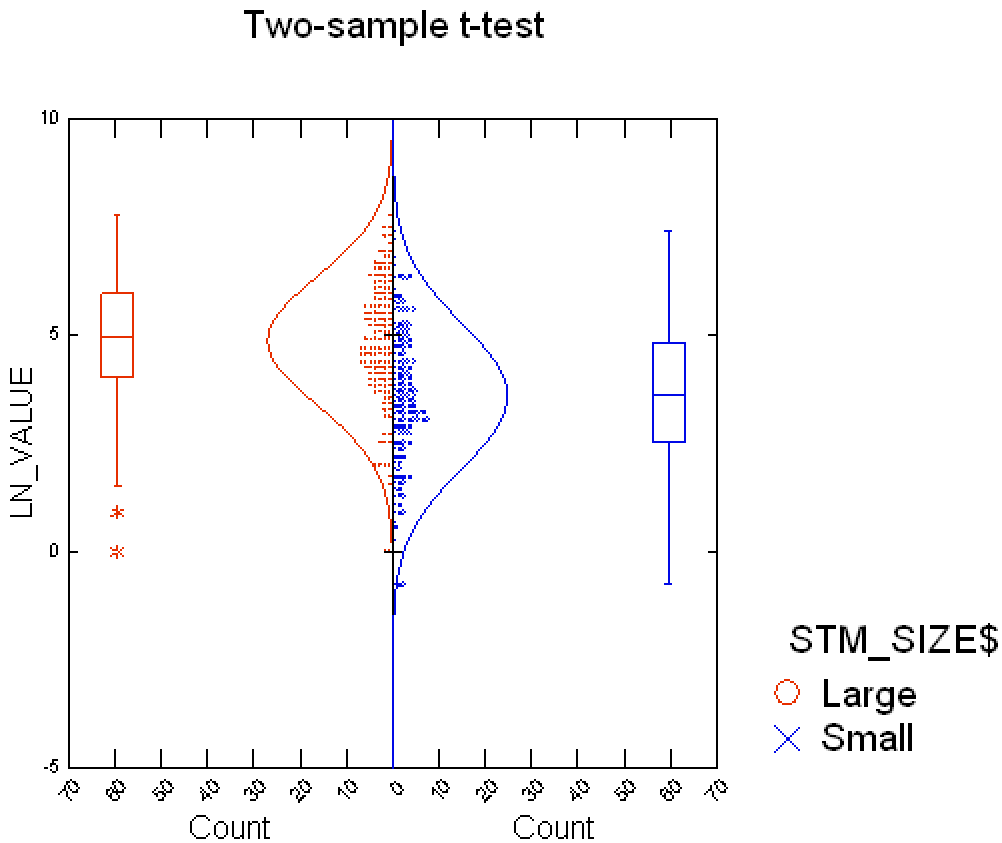
▼Hypothesis Testing: Two-sample t-test

```
Data for the following results were selected according to
      SELECT (PARAMETER$ = 'Total Suspended Solids') AND (ENTITY$ = 'COG2')
```

Two-sample t-test on LN_VALUE Grouped by STM_SIZE$ vs Alternative = 'not equal'

```
      ¦                   Standard
GROUP ¦   N     Mean     Deviation
------+------------------------
Large ¦ 141    4.864         1.485
Small ¦ 144    3.596         1.659

Separate Variance

Difference in Means          :   1.268
95.00% Confidence Interval :   0.901 to 1.635
t                            :   6.802
df                           : 280.775
p-value                      :   0.000

Pooled Variance
```

```
Difference in Means             :    1.268
95.00% Confidence Interval :    0.901 to 1.636
t                               :    6.794
df                              : 283.000
p-value                         :    0.000
```



Appendix O

Data Source Outlier Identification

Parameter	Dataset	Station ID	Value	Units
Arsenic, Total	CRP	10991	0	UG/L
Arsenic, Total	CRP	10941	0	UG/L
Arsenic, Total	CRP	10941	0	UG/L
Arsenic, Total	CRP	10941	0	UG/L
Arsenic, Total	CRP	10941	0	UG/L
Arsenic, Total	CRP	10940	0	UG/L
Arsenic, Total	CRP	10942	0	UG/L
Arsenic, Total	CRP	10934	0	UG/L
Arsenic, Total	CRP	10997	0	UG/L
Arsenic, Total	CRP	10934	0	UG/L
Arsenic, Total	CRP	10934	0	UG/L
Arsenic, Total	CRP	10934	0	UG/L
Arsenic, Total	CRP	11040	0.001	UG/L
Arsenic, Total	CRP	10934	0.01	UG/L
Arsenic, Total	CRP	10934	0.01	UG/L
Arsenic, Total	CRP	11023	0.01	UG/L
Arsenic, Total	CRP	11023	0.01	UG/L
Arsenic, Total	CRP	10941	0.01	UG/L
Arsenic, Total	CRP	10991	0.01	UG/L
Arsenic, Total	CRP	11023	0.013	UG/L
Arsenic, Total	CRP	10934	0.1	UG/L
Arsenic, Total	CRP	11023	0.1	UG/L
Arsenic, Total	CRP	10941	0.1	UG/L
Arsenic, Total	CRP	11023	0.1	UG/L
Arsenic, Total	CRP	10941	0.1	UG/L
Arsenic, Total	CRP	10938	0.1	UG/L
Arsenic, Total	CRP	10934	77	UG/L
Biochemical Oxygen Demand 5-Day	NSQD	Florida (Site 2)	0.1	MG/L
Biochemical Oxygen Demand 5-Day	NSQD	Florida (Site 6)	0.1	MG/L
Biochemical Oxygen Demand 5-Day	CRP	20608	260	MG/L
Chemical Oxygen Demand	NSQD	GAFUCOS3	1	MG/L
Chemical Oxygen Demand	CRP	11023	1	MG/L
Chemical Oxygen Demand	CRP	10941	1	MG/L
Chemical Oxygen Demand	CRP	10941	1.2	MG/L
Chemical Oxygen Demand	CRP	20608	460	MG/L
Chemical Oxygen Demand	CRP	20608	700	MG/L
Chemical Oxygen Demand	CRP	20608	760	MG/L
Chemical Oxygen Demand	CRP	20608	790	MG/L
Chemical Oxygen Demand	CRP	20608	900	MG/L
Chemical Oxygen Demand	CRP	20608	920	MG/L
Chemical Oxygen Demand	NCTCOG1	189	1300	MG/L
Chromium, Total	CRP	10781	0.005	UG/L
Copper, Total	CRP	10781	0.003	UG/L
pH	CRP	10945	0.8	SU
pH	CRP	10944	2.2	SU
pH	CRP	11023	2.3	SU
pH	CRP	10737	2.7	SU
pH	CRP	16766	2.7	SU
pH	CRP	17848	3.3	SU
pH	CRP	16766	3.6	SU
pH	CRP	10969	3.8	SU

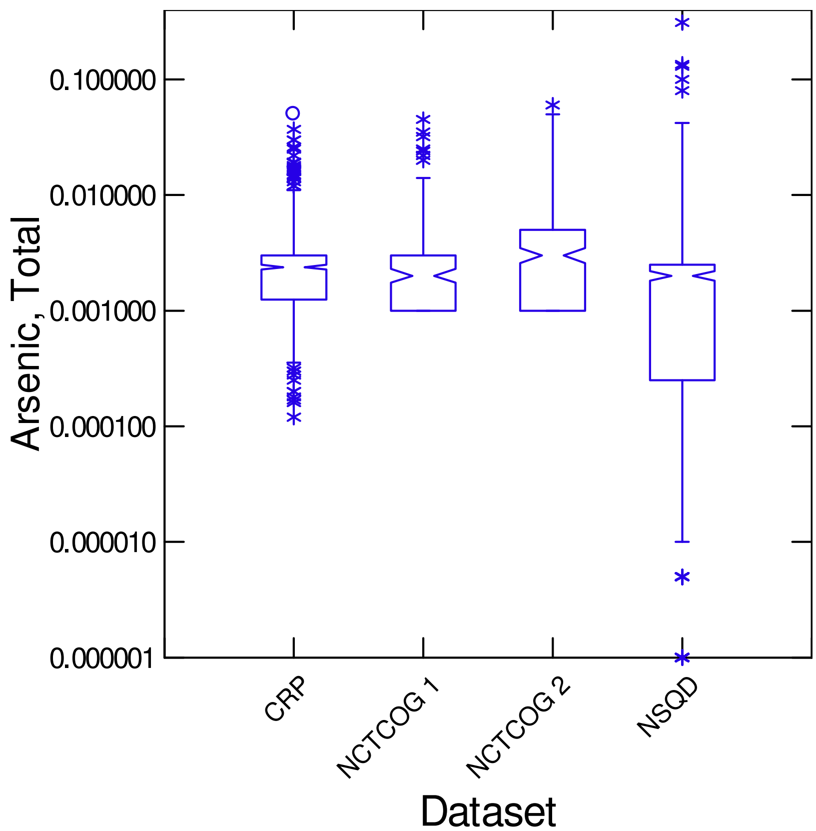
pH	CRP	17672	3.8	SU
pH	CRP	14904	4.1	SU
pH	CRP	15688	4.1	SU
pH	CRP	10967	4.4	SU
pH	CRP	18310	4.4	SU
pH	CRP	10781	4.5	SU
pH	CRP	17672	4.5	SU
pH	CRP	16766	4.5	SU
pH	CRP	10785	4.6	SU
pH	CRP	10742	4.7	SU
pH	CRP	10944	4.7	SU
pH	CRP	10944	4.8	SU
pH	CRP	10944	4.8	SU
pH	CRP	10944	4.8	SU
pH	CRP	10944	4.8	SU
pH	CRP	10944	4.8	SU
pH	CRP	10944	4.8	SU
pH	CRP	10944	4.8	SU
pH	CRP	17844	4.9	SU
pH	CRP	10944	4.9	SU
pH	CRP	10944	4.9	SU
pH	CRP	10944	4.9	SU
pH	CRP	17163	4.9	SU
pH	CRP	10741	5	SU
pH	CRP	10944	5	SU
pH	CRP	11084	5	SU
pH	CRP	10944	5.1	SU
pH	CRP	10968	5.2	SU
pH	CRP	16767	5.2	SU
pH	CRP	10747	5.3	SU
pH	CRP	16766	5.3	SU
pH	CRP	16826	5.3	SU
pH	CRP	11086	5.3	SU
pH	CRP	10738	5.4	SU
pH	CRP	11081	5.4	SU
pH	CRP	11082	5.4	SU
pH	CRP	11083	5.4	SU
pH	CRP	14042	5.5	SU
pH	CRP	17848	5.5	SU
pH	CRP	13618	5.5	SU
pH	CRP	15635	11.5	SU
pH	CRP	10956	11.6	SU
pH	CRP	11024	12	SU
pH	CRP	10815	12.5	SU
pH	CRP	10964	12.6	SU
pH	CRP	10936	73	SU
pH	CRP	11008	83	SU
Total Dissolved Solids	CRP	11042	3	MG/L
Total Suspended Solids	CRP	10781	0	MG/L
Total Suspended Solids	CRP	10786	0	MG/L
Total Suspended Solids	CRP	10785	0	MG/L
Total Suspended Solids	CRP	10941	0	MG/L

Total Suspended Solids	CRP	11004	0.03	MG/L
Total Suspended Solids	CRP	10890	2140	MG/L
Total Suspended Solids	CRP	11015	2160	MG/L
Total Suspended Solids	CRP	10788	2200	MG/L
Total Suspended Solids	CRP	10791	3120	MG/L
Total Suspended Solids	CRP	10723	4340	MG/L
Total Suspended Solids	CRP	10724	5280	MG/L
Total Suspended Solids	CRP	10722	12000	MG/L
Zinc, Total	CRP	10785	0.014	UG/L
Chemical Oxygen Demand	NSQD	Massachusetts (West Roxebury_13D077_078)	<0.005	MG/L
Chemical Oxygen Demand	NSQD	ALHUWERP	<1	MG/L
Chemical Oxygen Demand	NSQD	TXHOA004	<1	MG/L
Chemical Oxygen Demand	NSQD	TXHOA003	<1	MG/L
Chemical Oxygen Demand	NSQD	ALHUHURI	<1	MG/L
Chemical Oxygen Demand	NSQD	ORCCA004	<1	MG/L
Chemical Oxygen Demand	NSQD	ALHUMASM	<1	MG/L
Copper, Total	NCTCOG1	703	700	UG/L
Copper, Total	NCTCOG1	703	1100	UG/L
Copper, Total	NCTCOG1	703	460	UG/L
Copper, Total	NCTCOG1	703	1200	UG/L
Copper, Total	NCTCOG1	703	1300	UG/L
Copper, Total	NCTCOG1	703	350	UG/L
pH	NSQD	KYLXTBL2	3.4	su
pH	NSQD	Maryland (Brentwood)	3.67	su
pH	NSQD	Maryland (Brentwood)	3.9	su
pH	NSQD	Maryland (Brentwood)	3.94	su
pH	NSQD	Maryland (Brentwood)	3.94	su
pH	NSQD	MDHACOBP	3.94	su
pH	NSQD	Maryland (Brentwood)	4.07	su
pH	NSQD	Maryland (Brentwood)	4.12	su
pH	NSQD	Maryland (Brentwood)	4.26	su
Oil and Grease	NSQD	TXARA001	128	MG/L
Oil and Grease	NSQD	AZMCA006	150	MG/L
Oil and Grease	NSQD	TXARA002	218	MG/L
Oil and Grease	NSQD	TXARA001	295	MG/L
Oil and Grease	NSQD	TXARA001	319	MG/L
Oil and Grease	NSQD	TXARA001	359	MG/L
Oil and Grease	NSQD	TXARA002	411	MG/L
Oil and Grease	NSQD	TXARA002	419	MG/L
Oil and Grease	NSQD	VAPMTYP3	570	MG/L
Phosphorus, Dissolved	NSQD	PAPH1182	<0.001	MG/L
Phosphorus, Total	NSQD	NY (English Brook)	0.003	MG/L
Phosphorus, Total	NSQD	TNMET207	15.4	MG/L
Phosphorus, Total	NSQD	TX (Central Park Wet Pond_CPWP-I)	15.6	MG/L
Phosphorus, Total	NSQD	MD (MD001)	19.9	MG/L
Phosphorus, Total	NSQD	TX (Walnut Creek_01 in Walnut Ck.)	80.2	MG/L
Total Dissolved Solids	NCTCOG1	189	959	MG/L
Total Dissolved Solids	NSQD	CACTA002	<1	MG/L
Total Dissolved Solids	NSQD	VACHCOF5	<1	MG/L
Total Dissolved Solids	NSQD	VA (Modoc Avenue N2)	<1	MG/L
Total Dissolved Solids	NSQD	ORPOA005	<1	MG/L
Total Dissolved Solids	NSQD	VA (Cavalier_Industrial_Park_C5)	<1	MG/L

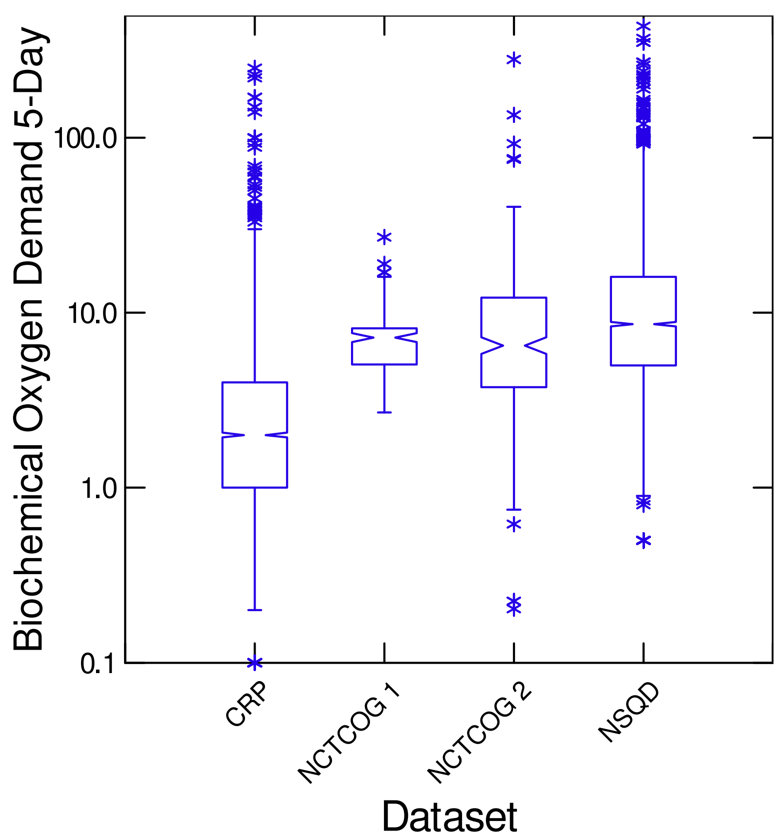
Total Dissolved Solids	NSQD	Indiana (Basin C3)	6260	MG/L
Total Dissolved Solids	NSQD	Delaware (Christiana Mall)	6500	MG/L
Total Dissolved Solids	NSQD	Indiana (Basin I1-control)	7320	MG/L
Total Dissolved Solids	NSQD	Minnesota (site1_Harriet_Pkwy/44th_St.`)	8200	MG/L
Total Dissolved Solids	NSQD	VAARLTC4	11200	MG/L
Total Dissolved Solids	NSQD	MABOA001	17900	MG/L
Total Suspended Solids	NSQD	Maryland (96.5)	0.109	MG/L
Total Suspended Solids	NSQD	Maryland (96.5)	0.115	MG/L
Nitrogen, Total	NSQD	KYLOTSR5	90.1	MG/L

Appendix P

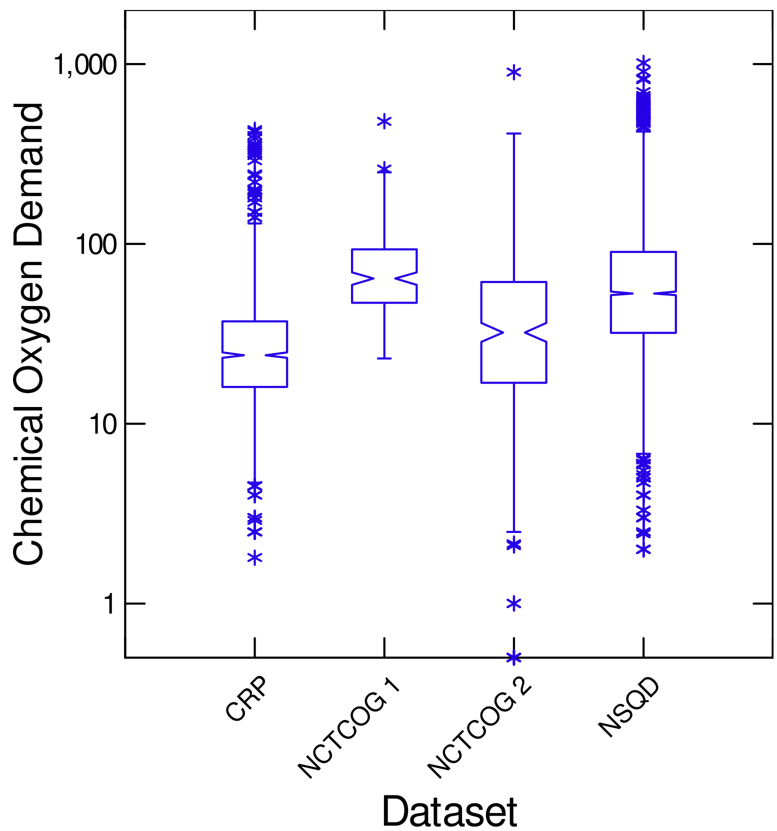
Box-Whisker Plots by Parameter and Dataset



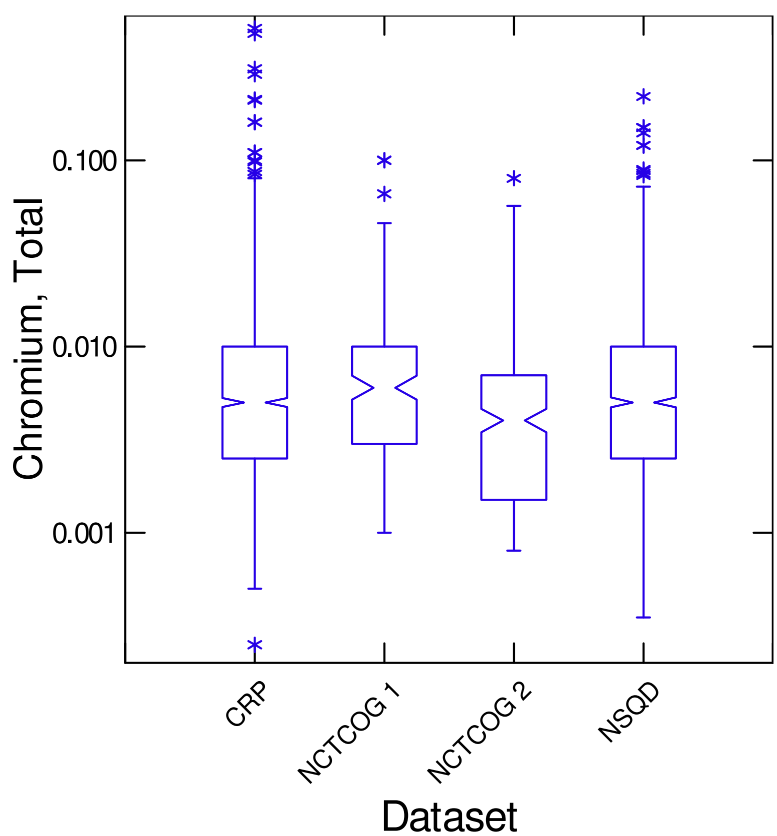
Arsenic, Total
0.100000
0.010000
0.001000
0.000100
0.000010
0.000001
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset



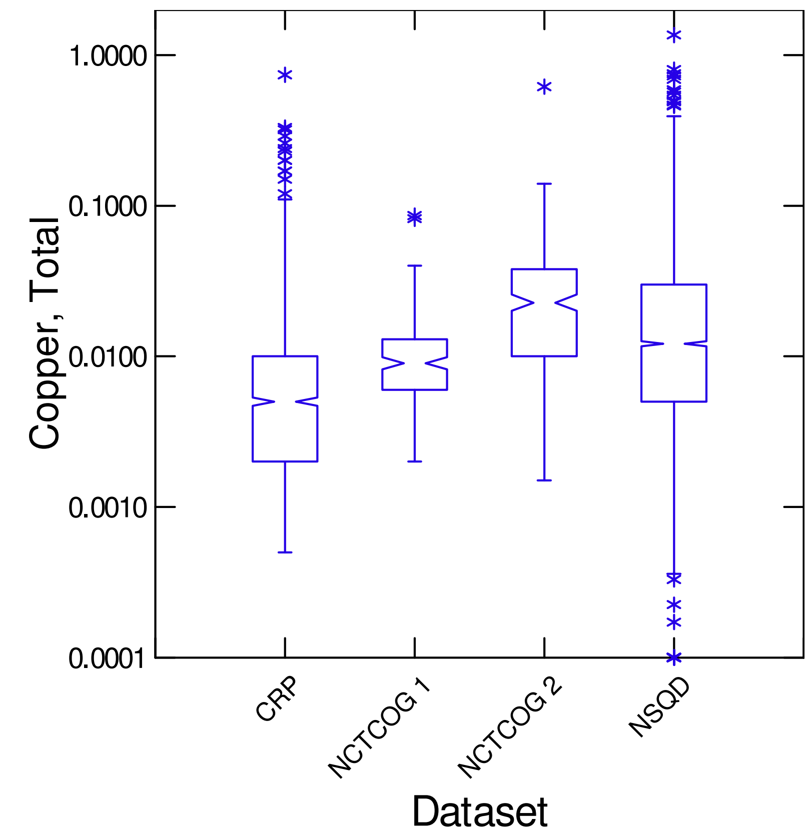
Biochemical Oxygen Demand 5-Day
100.0
10.0
1.0
0.1
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset

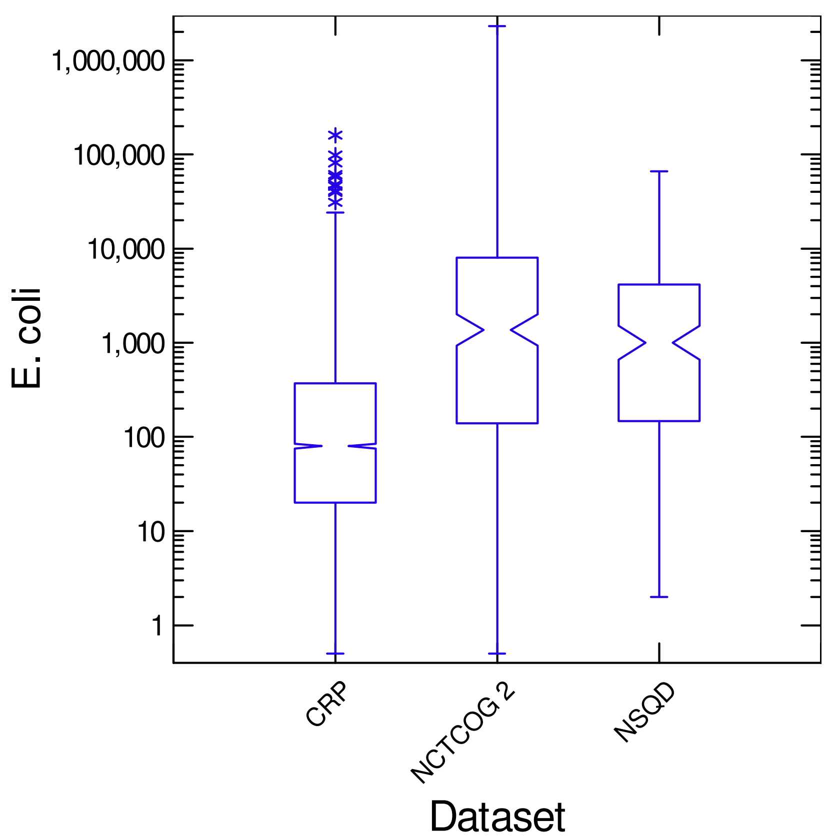


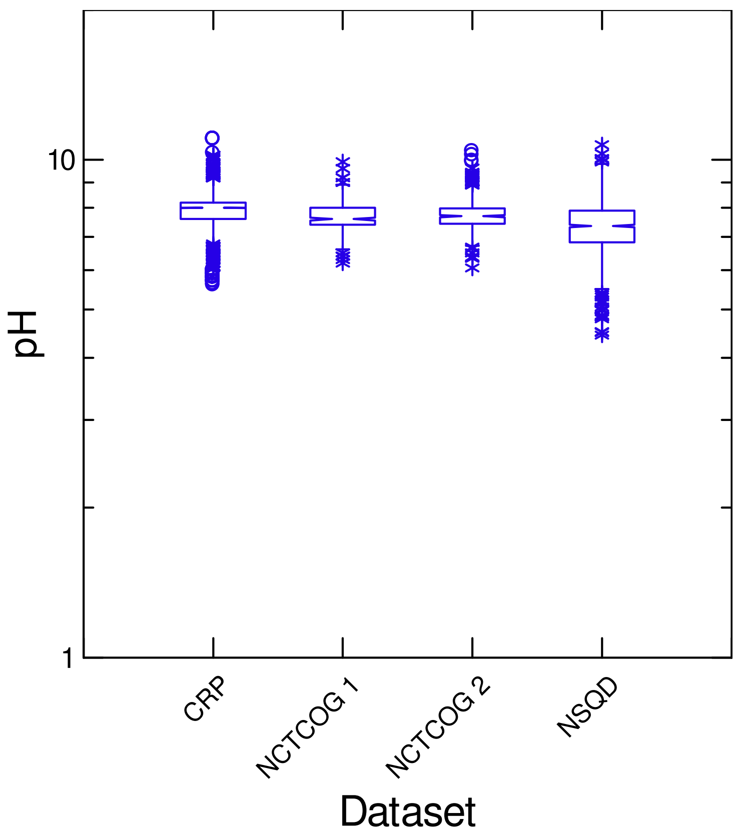
Chemical Oxygen Demand
1,000
100
10
1
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset

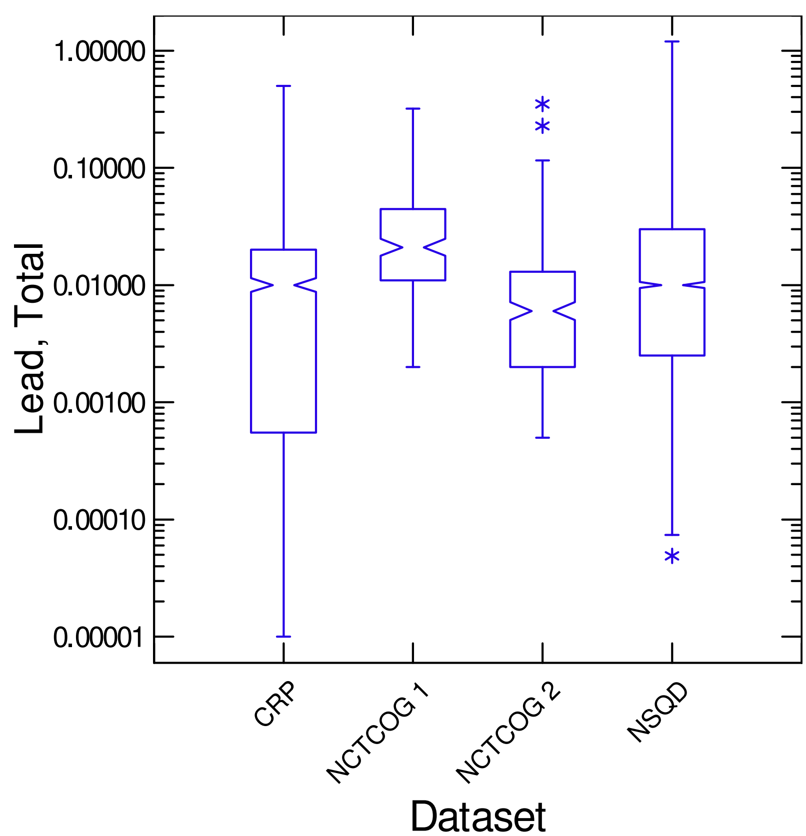


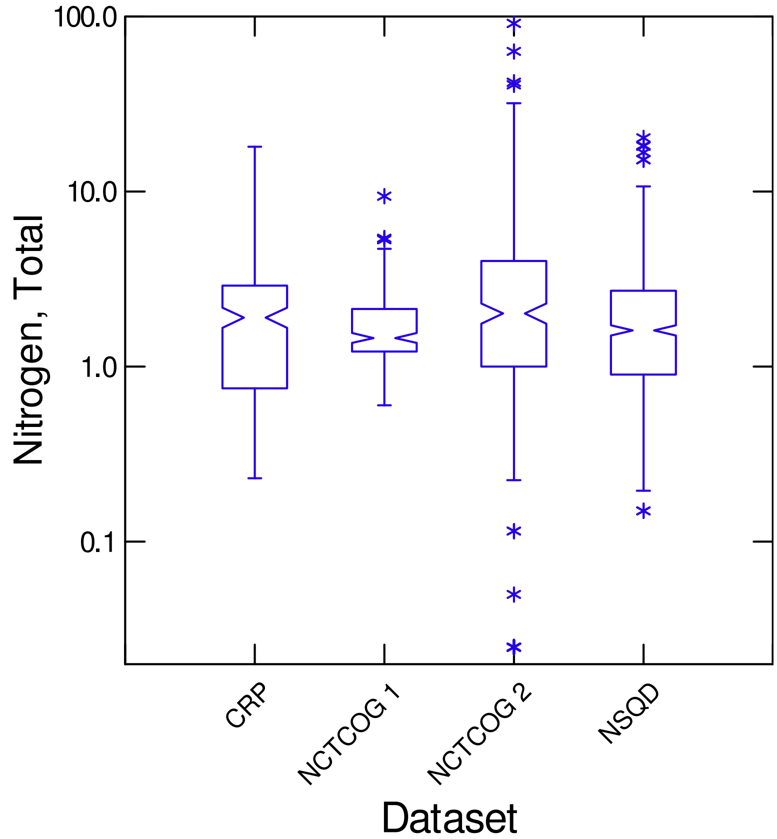
Chromium, Total
0.100
0.010
0.001
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset


1.0000
0.1000
0.0100
0.0010
0.0001
Copper, Total
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset

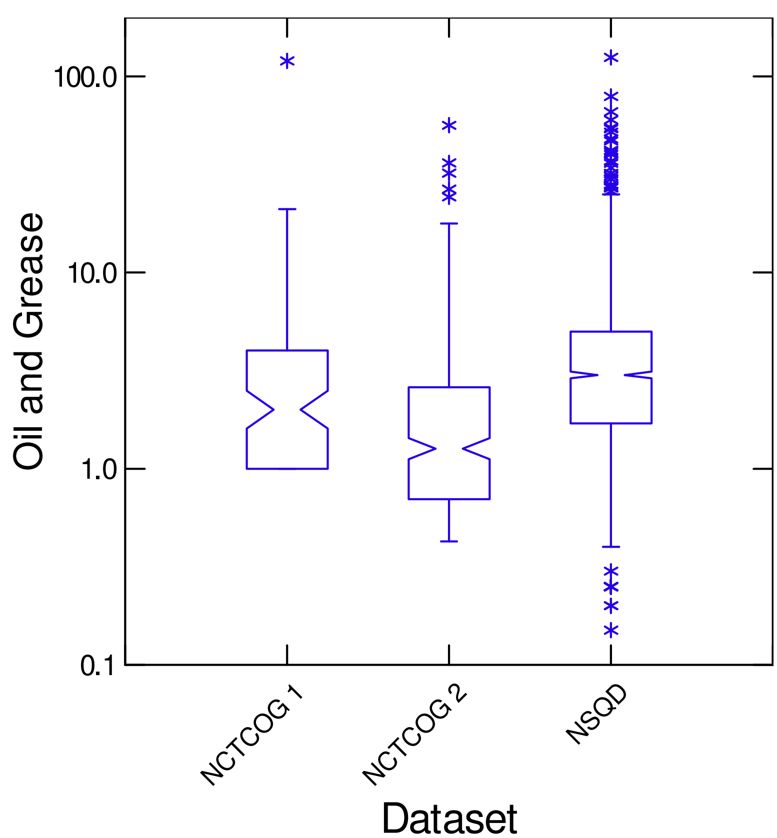

1,000,000
100,000
10,000
1,000
100
10
1
E. coli
CRP
NCTCOG 2
NSQD
Dataset


10
1
pH
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset

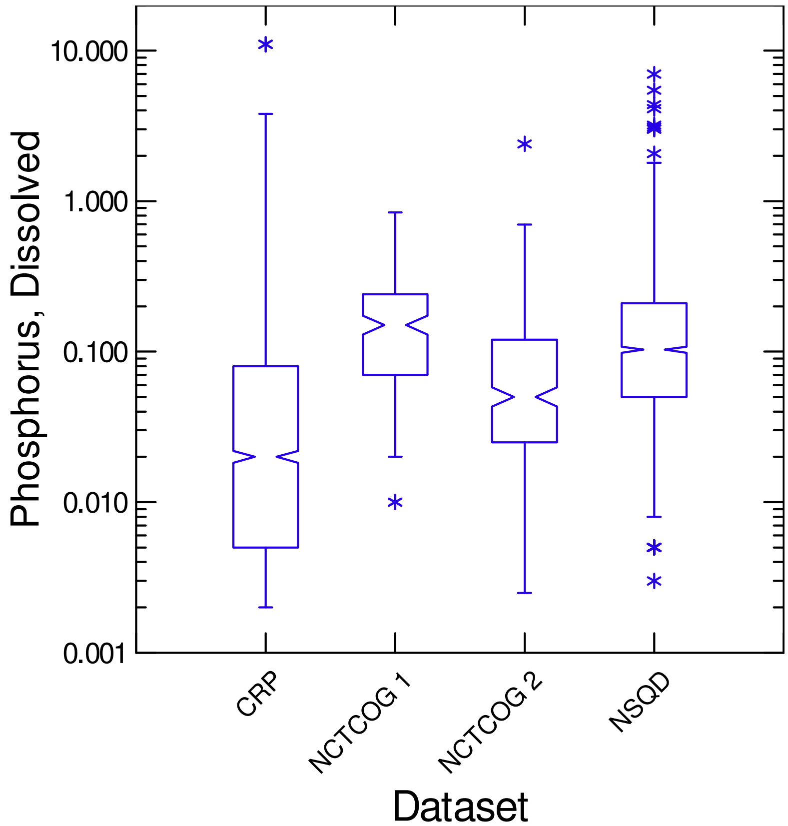

1.00000
0.10000
0.01000
0.00100
0.00010
0.00001
Lead, Total
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset

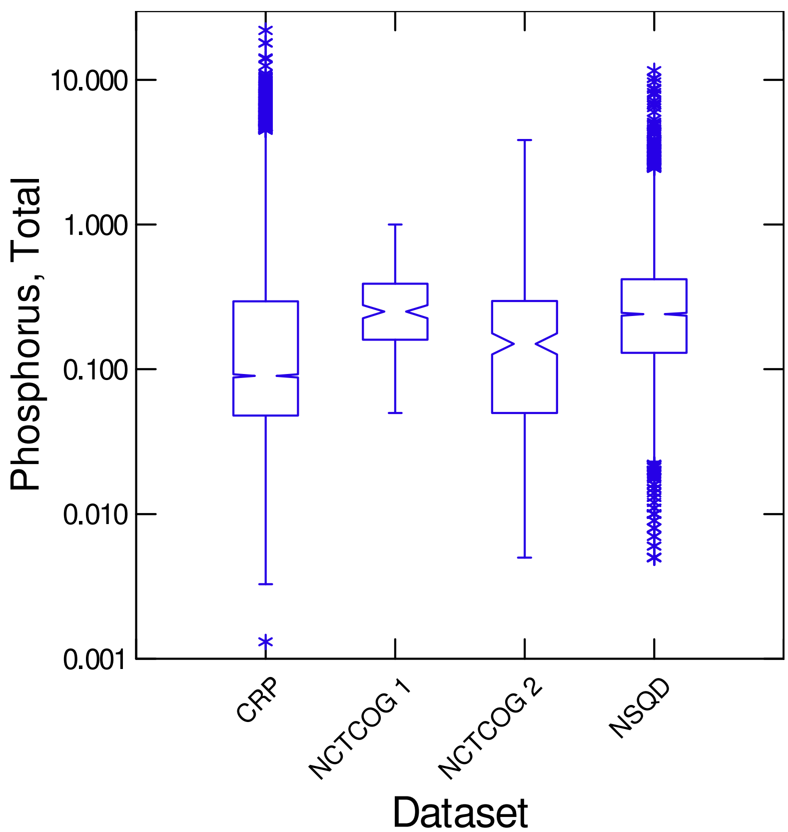


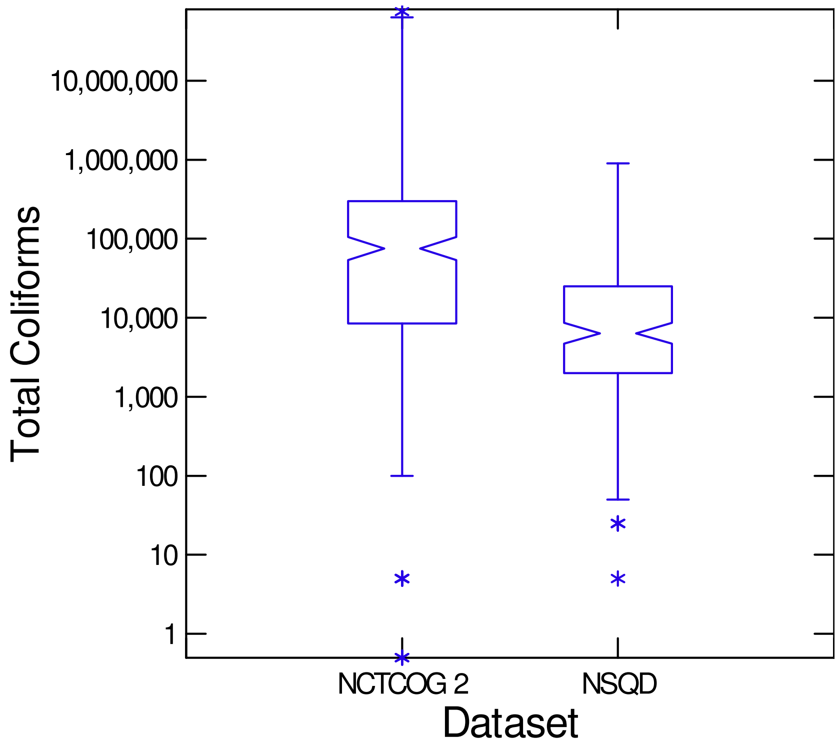
100.0
10.0
1.0
0.1
Nitrogen, Total
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset



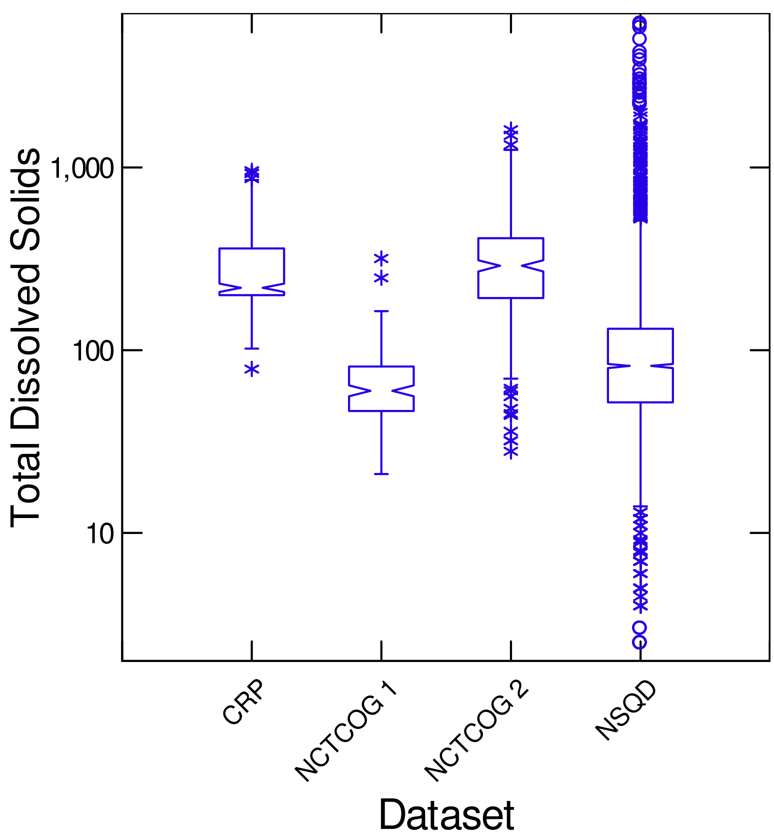
100.0
10.0
1.0
0.1
Oil and Grease
NCTCOG 1
NCTCOG 2
NSQD
Dataset


Phosphorus, Dissolved
10.000
1.000
0.100
0.010
0.001
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset

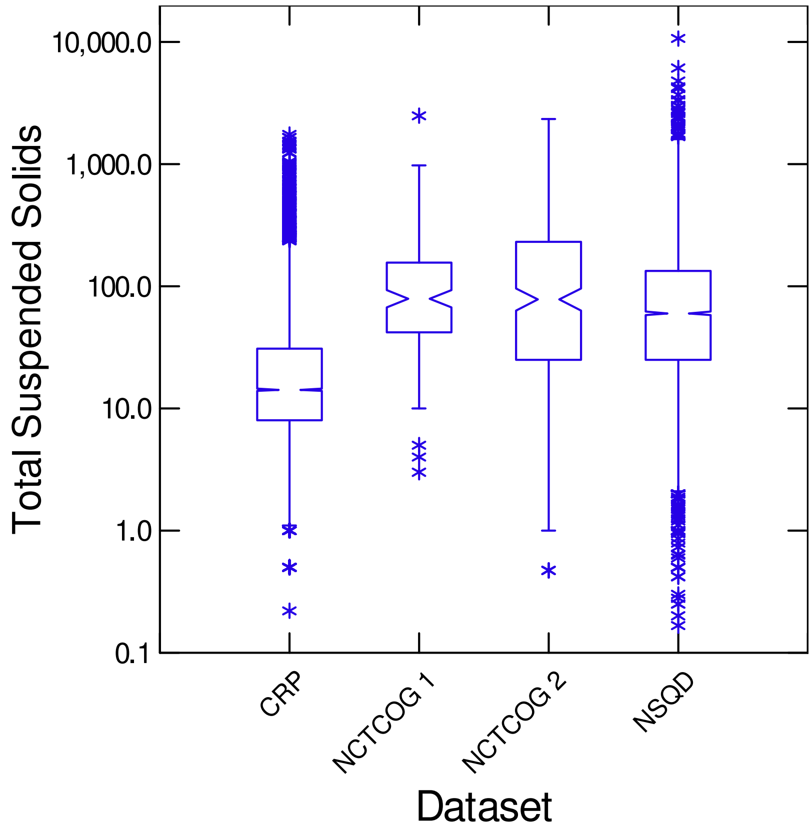

Phosphorus, Total
10.000
1.000
0.100
0.010
0.001
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset



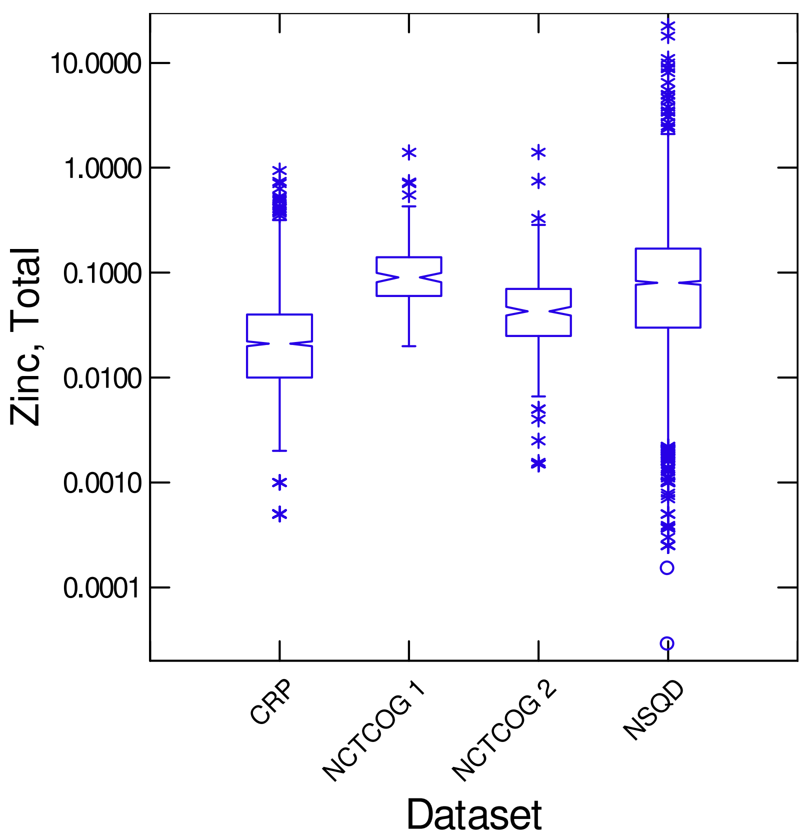
10,000,000
1,000,000
100,000
10,000
1,000
100
10
1
Total Coliforms
NCTCOG 2
NSQD
Dataset



1,000
100
10
Total Dissolved Solids
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset



10,000.0
1,000.0
100.0
10.0
1.0
0.1
Total Suspended Solids
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset



10.0000
1.0000
0.1000
0.0100
0.0010
0.0001
Zinc, Total
CRP
NCTCOG 1
NCTCOG 2
NSQD
Dataset

Appendix Q

Dataset Comparison Including Undetected Lab Results Statistical Tests and Results

Kruskal-Wallis One-way Analysis of Variance for 465 Cases
Results for PARAMETER$ = Arsenic

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	156	32,758.000
NCTCOG 2	285	64,703.000

Mann-Whitney U Test Statistic	:	20,512.000
p-value	:	0.172
Chi-square Approximation	:	1.869
df	:	1

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	172	39,337.000
NCTCOG 2	285	65,316.000

Mann-Whitney U Test Statistic	:	24,459.000
p-value	:	0.970
Chi-square Approximation	:	0.001
df	:	1

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	177	54,192.500
NCTCOG 2	285	52,760.500

Mann-Whitney U Test Statistic	:	38,439.500
p-value	:	0.000
Chi-square Approximation	:	89.759
df	:	1

Results for PARAMETER$ = Chromium

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	161	43,160.500
NCTCOG 2	285	56,520.500

Mann-Whitney U Test Statistic	:	30,119.500
p-value	:	0.000
Chi-square Approximation	:	30.463
df	:	1

Results for PARAMETER$ = Copper

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	168	27,085.000
NCTCOG 2	285	75,746.000

Mann-Whitney U Test Statistic : 12,889.000
p-value : 0.000
Chi-square Approximation : 67.526
df : 1

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	181	54,885.500
NCTCOG 2	284	53,459.500

Mann-Whitney U Test Statistic : 38,414.500
p-value : 0.000
Chi-square Approximation : 82.175
df : 1

Results for PARAMETER$ = Lead

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	176	55,868.500
NCTCOG 2	285	50,622.500

Mann-Whitney U Test Statistic : 40,292.500
p-value : 0.000
Chi-square Approximation : 120.710

df : 1

Results for PARAMETER$ = Oil and Grease

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	98	23,897.500
NCTCOG 2	281	48,112.500

Mann-Whitney U Test Statistic : 19,046.500
p-value : 0.000
Chi-square Approximation : 32.858
df : 1

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	168	17,132.000
NCTCOG 2	284	85,246.000

Mann-Whitney U Test Statistic : 2,936.000
p-value : 0.000
Chi-square Approximation : 242.996
df : 1

Results for PARAMETER$ = PHOSPHORUS, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	182	51,298.500
NCTCOG 2	284	57,512.500

Mann-Whitney U Test Statistic	:	34,645.500
p-value	:	0.000
Chi-square Approximation	:	38.593
df	:	1

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	166	38,418.000
NCTCOG 2	285	63,508.000

Mann-Whitney U Test Statistic	:	24,557.000
p-value	:	0.499
Chi-square Approximation	:	0.457
df	:	1

Results for PARAMETER$ = NITROGEN, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	182	37,909.500
NCTCOG 2	282	69,970.500

Mann-Whitney U Test Statistic : 21,256.500
p-value : 0.002
Chi-square Approximation : 9.762
df : 1

Results for PARAMETER$ = Zinc

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	178	55,330.000
NCTCOG 2	285	52,086.000

Mann-Whitney U Test Statistic : 39,399.000
p-value : 0.000
Chi-square Approximation : 100.445
df : 1

Results for PARAMETER$ = pH

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	351	145,311.000
NCTCOG 2	499	216,364.000

Mann-Whitney U Test Statistic : 83,535.000
p-value : 0.252

Chi-square Approximation	:	1.315
df	:	1

Results for PARAMETER$ = E coli

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels
ENTITY$ (1 levels)	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Not enough Groups for analysis

Results for PARAMETER$ = Total Coliforms

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 1') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels
ENTITY$ (1 levels)	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Not enough Groups for analysis

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 1,189 Cases
Results for PARAMETER$ = Arsenic

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	903	520,704.500
NCTCOG 2	285	185,561.500

Mann-Whitney U Test Statistic : 112,548.500
p-value : 0.001
Chi-square Approximation : 10.311
df : 1

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	5,004	12,818,919.000
NCTCOG 2	285	1,170,486.000

Mann-Whitney U Test Statistic : 296,409.000
p-value : 0.000
Chi-square Approximation : 278.995
df : 1

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	1,416	1,168,250.500
NCTCOG 2	285	279,300.500

Mann-Whitney U Test Statistic : 165,014.500
p-value : 0.000
Chi-square Approximation : 23.624

df : 1

Results for PARAMETER$ = Chromium

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	1,507	1,384,517.000
NCTCOG 2	285	222,011.000

Mann-Whitney U Test Statistic : 248,239.000
p-value : 0.000
Chi-square Approximation : 17.614
df : 1

Results for PARAMETER$ = Copper

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	1,668	1,489,009.000
NCTCOG 2	285	419,072.000

Mann-Whitney U Test Statistic : 97,063.000
p-value : 0.000
Chi-square Approximation : 256.681
df : 1

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	2,390	3,084,336.500
NCTCOG 2	284	492,138.500

Mann-Whitney U Test Statistic : 227,091.500
p-value : 0.000
Chi-square Approximation : 84.240
df : 1

Results for PARAMETER$ = E coli

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	6,480	21,460,777.500
NCTCOG 2	281	1,398,163.500

Mann-Whitney U Test Statistic : 462,337.500
p-value : 0.000
Chi-square Approximation : 195.722
df : 1

Results for PARAMETER$ = pH

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	54,195	1.486E+009
NCTCOG 2	499	10,239,757.000

Mann-Whitney U Test Statistic : 16,928,298.000
p-value : 0.000
Chi-square Approximation : 94.384
df : 1

Results for PARAMETER$ = Lead

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	1,712	1,714,711.500
NCTCOG 2	285	280,291.500

Mann-Whitney U Test Statistic : 248,383.500
p-value : 0.621
Chi-square Approximation : 0.244
df : 1

Results for PARAMETER$ = Oil and Grease

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels
ENTITY$ (1 levels)	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Not enough Groups for analysis

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	311	89,092.000
NCTCOG 2	284	88,218.000

Mann-Whitney U Test Statistic : 40,576.000
p-value : 0.087
Chi-square Approximation : 2.932
df : 1

Results for PARAMETER$ = NITROGEN, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	262	68,746.000
NCTCOG 2	282	79,494.000

Mann-Whitney U Test Statistic : 34,293.000
p-value : 0.148
Chi-square Approximation : 2.092
df : 1

Results for PARAMETER$ = PHOSPHORUS, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	12,868	84,526,646.500
NCTCOG 2	284	1,967,481.500

Mann-Whitney U Test Statistic : 1,727,500.500
p-value : 0.115
Chi-square Approximation : 2.488
df : 1

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	11,413	65,880,372.000
NCTCOG 2	285	2,547,079.000

Mann-Whitney U Test Statistic : 746,381.000
p-value : 0.000
Chi-square Approximation : 244.260
df : 1

Results for PARAMETER$ = Total Coliforms

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels
ENTITY$ (1 levels)	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Not enough Groups for analysis

Results for PARAMETER$ = Zinc

Data for the following results were selected according to
SELECT (ENTITY$ = 'CRP') OR (ENTITY$ = 'NCTCOG 2')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	1,642	1,495,166.500
NCTCOG 2	285	362,461.500

Mann-Whitney U Test Statistic	:	146,263.500
p-value	:	0.000
Chi-square Approximation	:	102.397
df	:	1

►Descriptive Statistics

	Col3
N of Cases	2,523
Median	1.060

►Descriptive Statistics

	Col3
N of Cases	156
Median	0.002

	Col3
N of Cases	172
Median	7.200

	Col3
N of Cases	180
Median	64.000

	Col3
N of Cases	161
Median	0.006

	Col3
N of Cases	169
Median	0.009

	Col3
N of Cases	182
Median	0.145

	Col3
N of Cases	178
Median	0.021

	Col3
N of Cases	98
Median	2.000

	Col3

	Col3
N of Cases	168
Median	60.000

	Col3
N of Cases	182
Median	0.250

	Col3
N of Cases	166
Median	79.000

	Col3
N of Cases	182
Median	1.455

	Col3
N of Cases	178
Median	0.090

	Col3
N of Cases	351
Median	7.600

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 1,670 Cases
Results for PARAMETER$ = Arsenic

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	285	302,106.000
NSQD	1,384	1,091,509.000

Mann-Whitney U Test Statistic : 261,351.000
p-value : 0.000
Chi-square Approximation : 75.653
df : 1

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	285	557,443.500
NSQD	4,384	10,344,671.500

Mann-Whitney U Test Statistic : 516,688.500
p-value : 0.000
Chi-square Approximation : 24.017
df : 1

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	285	481,102.500
NSQD	4,662	11,757,775.500

Mann-Whitney U Test Statistic : 440,347.500
p-value : 0.000
Chi-square Approximation : 91.580
df : 1

Results for PARAMETER$ = Chromium

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	285	189,919.000
NSQD	1,289	1,049,606.000

Mann-Whitney U Test Statistic : 149,164.000
p-value : 0.000
Chi-square Approximation : 24.797
df : 1

Results for PARAMETER$ = Copper

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	285	862,440.000
NSQD	4,756	11,845,921.000

Mann-Whitney U Test Statistic : 821,685.000
p-value : 0.000
Chi-square Approximation : 36.403
df : 1

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	284	281,159.000
NSQD	2,587	3,841,597.000

Mann-Whitney U Test Statistic : 240,689.000
p-value : 0.000
Chi-square Approximation : 91.425
df : 1

Results for PARAMETER$ = E coli

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	281	63,503.000
NSQD	160	33,958.000

Mann-Whitney U Test Statistic : 23,882.000
p-value : 0.276
Chi-square Approximation : 1.187
df : 1

Results for PARAMETER$ = pH

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	499	760,788.000
NSQD	1,957	2,256,408.000

Mann-Whitney U Test Statistic : 636,038.000
p-value : 0.000
Chi-square Approximation : 109.237
df : 1

Results for PARAMETER$ = Lead

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	285	535,184.500
NSQD	4,194	9,497,775.500

Mann-Whitney U Test Statistic : 494,429.500
p-value : 0.000
Chi-square Approximation : 23.886
df : 1

Results for PARAMETER$ = Oil and Grease

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	281	203,546.500
NSQD	1,845	2,057,454.500

Mann-Whitney U Test Statistic : 163,925.500
p-value : 0.000
Chi-square Approximation : 99.283
df : 1

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	284	803,267.500
NSQD	3,146	5,080,897.500

Mann-Whitney U Test Statistic	:	762,797.500
p-value	:	0.000
Chi-square Approximation	:	391.071
df	:	1

Results for PARAMETER$ = NITROGEN, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	282	148,088.500
NSQD	681	316,077.500

Mann-Whitney U Test Statistic	:	108,185.500
p-value	:	0.002
Chi-square Approximation	:	9.593
df	:	1

Results for PARAMETER$ = PHOSPHORUS, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	284	743,619.000
NSQD	7,004	25,817,497.000

Mann-Whitney U Test Statistic	:	703,149.000
p-value	:	0.000
Chi-square Approximation	:	70.296
df	:	1

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	285	1,031,401.500
NSQD	6,354	21,010,078.500

Mann-Whitney U Test Statistic	:	990,646.500
p-value	:	0.007
Chi-square Approximation	:	7.245
df	:	1

Results for PARAMETER$ = Total Coliforms

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	281	75,623.500
NSQD	174	28,116.500

Mann-Whitney U Test Statistic	:	36,002.500
p-value	:	0.000
Chi-square Approximation	:	71.879
df	:	1

Results for PARAMETER$ = Zinc

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	285	509,912.500
NSQD	4,692	11,877,840.500

Mann-Whitney U Test Statistic	:	469,157.500
p-value	:	0.000
Chi-square Approximation	:	71.715
df	:	1

Appendix R

Dataset Comparison Excluding Undetected Lab Results Statistical Tests and Results

Kruskal-Wallis One-way Analysis of Variance for 294 Cases
Results for PARAMETER$ = Arsenic

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	156	17,250.000
NCTCOG 2	137	25,821.000

Mann-Whitney U Test Statistic	:	5,004.000
p-value	:	0.000
Chi-square Approximation	:	63.372
df	:	1

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND 5-DAY

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	172	32,113.000
NCTCOG 2	243	54,207.000

Mann-Whitney U Test Statistic	:	17,235.000
p-value	:	0.002
Chi-square Approximation	:	9.261
df	:	1

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	177	50,475.500
NCTCOG 2	264	46,985.500

Mann-Whitney U Test Statistic	:	34,722.500
p-value	:	0.000
Chi-square Approximation	:	74.964
df	:	1

Results for PARAMETER$ = Chromium

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	161	24,170.500
NCTCOG 2	149	24,034.500

Mann-Whitney U Test Statistic	:	11,129.500
p-value	:	0.270
Chi-square Approximation	:	1.215
df	:	1

Results for PARAMETER$ = Copper

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	168	18,041.500
NCTCOG 2	224	58,986.500

Mann-Whitney U Test Statistic : 3,845.500
p-value : 0.000
Chi-square Approximation : 181.977
df : 1

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	181	31,030.500
NCTCOG 2	147	22,925.500

Mann-Whitney U Test Statistic : 14,559.500
p-value : 0.141
Chi-square Approximation : 2.165
df : 1

Results for PARAMETER$ = Lead

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	176	35,073.500
NCTCOG 2	161	21,879.500

Mann-Whitney U Test Statistic : 19,497.500
p-value : 0.000
Chi-square Approximation : 35.630

df : 1

Results for PARAMETER$ = Oil and Grease

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	98	7,759.500
NCTCOG 2	85	9,076.500

Mann-Whitney U Test Statistic : 2,908.500
p-value : 0.000
Chi-square Approximation : 12.471
df : 1

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	168	17,132.000
NCTCOG 2	284	85,246.000

Mann-Whitney U Test Statistic : 2,936.000
p-value : 0.000
Chi-square Approximation : 242.996
df : 1

Results for PARAMETER$ = PHOSPHORUS, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	182	38,035.000
NCTCOG 2	211	39,386.000

Mann-Whitney U Test Statistic : 21,382.000
p-value : 0.052
Chi-square Approximation : 3.774
df : 1

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	166	36,602.000
NCTCOG 2	274	60,418.000

Mann-Whitney U Test Statistic : 22,741.000
p-value : 0.999
Chi-square Approximation : 0.000
df : 1

Results for PARAMETER$ = NITROGEN, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	182	31,359.500
NCTCOG 2	246	60,446.500

Mann-Whitney U Test Statistic : 14,706.500
p-value : 0.000
Chi-square Approximation : 36.853
df : 1

Results for PARAMETER$ = Zinc

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	178	51,420.000
NCTCOG 2	263	46,041.000

Mann-Whitney U Test Statistic : 35,489.000
p-value : 0.000
Chi-square Approximation : 84.691
df : 1

Results for PARAMETER$ = pH

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 1	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 1	351	145,311.000
NCTCOG 2	499	216,364.000

Mann-Whitney U Test Statistic : 83,535.000
p-value : 0.252

Chi-square Approximation	:	1.315
df	:	1

Results for PARAMETER$ = E coli

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels
ENTITY$ (1 levels)	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Not enough Groups for analysis

Results for PARAMETER$ = Total Coliforms

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NCTCOG 1')

The categorical values encountered during processing are

Variables	Levels
ENTITY$ (1 levels)	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Not enough Groups for analysis

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 766 Cases
Results for PARAMETER$ = Arsenic

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	628	220,811.000
NCTCOG 2	137	72,184.000

Mann-Whitney U Test Statistic : 23,305.000
p-value : 0.000
Chi-square Approximation : 72.002
df : 1

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND 5-DAY

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	3,581	6,553,977.000
NCTCOG 2	243	759,423.000

Mann-Whitney U Test Statistic : 140,406.000
p-value : 0.000
Chi-square Approximation : 313.841
df : 1

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	1,336	1,028,874.000
NCTCOG 2	264	251,926.000

Mann-Whitney U Test Statistic : 135,758.000
p-value : 0.000
Chi-square Approximation : 35.032

df	:	1

Results for PARAMETER$ = Chromium

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	791	378,576.500
NCTCOG 2	149	63,693.500

Mann-Whitney U Test Statistic	:	65,340.500
p-value	:	0.035
Chi-square Approximation	:	4.464
df	:	1

Results for PARAMETER$ = Copper

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	1,163	710,925.000
NCTCOG 2	224	251,653.000

Mann-Whitney U Test Statistic	:	34,059.000
p-value	:	0.000
Chi-square Approximation	:	307.857
df	:	1

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	1,709	1,538,520.000
NCTCOG 2	147	184,776.000

Mann-Whitney U Test Statistic : 77,325.000
p-value : 0.000
Chi-square Approximation : 60.121
df : 1

Results for PARAMETER$ = E coli

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	6,183	19,379,342.000
NCTCOG 2	248	1,302,754.000

Mann-Whitney U Test Statistic : 261,506.000
p-value : 0.000
Chi-square Approximation : 310.538
df : 1

Results for PARAMETER$ = pH

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	54,195	1.486E+009
NCTCOG 2	499	10,239,757.000

Mann-Whitney U Test Statistic : 16,928,298.000
p-value : 0.000
Chi-square Approximation : 94.384
df : 1

Results for PARAMETER$ = Lead

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	938	533,896.000
NCTCOG 2	161	70,554.000

Mann-Whitney U Test Statistic : 93,505.000
p-value : 0.000
Chi-square Approximation : 23.587
df : 1

Results for PARAMETER$ = Oil and Grease

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels
ENTITY$ (1 levels)	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Not enough Groups for analysis

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	311	89,092.000
NCTCOG 2	284	88,218.000

Mann-Whitney U Test Statistic	:	40,576.000
p-value	:	0.087
Chi-square Approximation	:	2.932
df	:	1

Results for PARAMETER$ = NITROGEN, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	259	58,633.500
NCTCOG 2	246	69,131.500

Mann-Whitney U Test Statistic	:	24,963.500
p-value	:	0.000
Chi-square Approximation	:	17.694
df	:	1

Results for PARAMETER$ = PHOSPHORUS, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	12,050	73,515,822.000
NCTCOG 2	211	1,656,369.000

Mann-Whitney U Test Statistic : 908,547.000
p-value : 0.000
Chi-square Approximation : 50.696
df : 1

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	10,828	59,257,070.500
NCTCOG 2	274	2,375,682.500

Mann-Whitney U Test Statistic : 628,864.500
p-value : 0.000
Chi-square Approximation : 266.097
df : 1

Results for PARAMETER$ = Total Coliforms

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels
ENTITY$ (1 levels)	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Not enough Groups for analysis

Results for PARAMETER$ = Zinc

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'CRP')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	CRP	NCTCOG 2

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
CRP	1,425	1,126,844.500
NCTCOG 2	263	298,671.500

Mann-Whitney U Test Statistic	:	110,819.500
p-value	:	0.000
Chi-square Approximation	:	111.183
df	:	1

▼Nonparametric : Kruskal-Wallis test

Kruskal-Wallis One-way Analysis of Variance for 625 Cases
Results for PARAMETER$ = Arsenic

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	137	52,382.500
NSQD	487	142,617.500

Mann-Whitney U Test Statistic	:	42,929.500
p-value	:	0.000
Chi-square Approximation	:	26.651
df	:	1

Results for PARAMETER$ = BIOCHEMICAL OXYGEN DEMAND 5-DAY

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	243	490,113.000
NSQD	4,125	9,051,783.000

Mann-Whitney U Test Statistic : 460,467.000
p-value : 0.033
Chi-square Approximation : 4.546
df : 1

Results for PARAMETER$ = CHEMICAL OXYGEN DEMAND

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	264	465,523.500
NSQD	4,624	11,483,192.500

Mann-Whitney U Test Statistic : 430,543.500
p-value : 0.000
Chi-square Approximation : 65.022
df : 1

Results for PARAMETER$ = Chromium

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	149	66,900.000
NSQD	810	393,420.000

Mann-Whitney U Test Statistic : 55,725.000
p-value : 0.137
Chi-square Approximation : 2.214
df : 1

Results for PARAMETER$ = Copper

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	224	650,078.500
NSQD	4,157	8,948,692.500

Mann-Whitney U Test Statistic : 624,878.500
p-value : 0.000
Chi-square Approximation : 74.642
df : 1

Results for PARAMETER$ = PHOSPHORUS, DISSOLVED

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	147	160,244.500
NSQD	2,147	2,472,120.500

Mann-Whitney U Test Statistic : 149,366.500
p-value : 0.277
Chi-square Approximation : 1.180

df : 1

Results for PARAMETER$ = E coli

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	248	52,200.500
NSQD	149	26,802.500

Mann-Whitney U Test Statistic : 21,324.500
p-value : 0.010
Chi-square Approximation : 6.621
df : 1

Results for PARAMETER$ = pH

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	499	760,788.000
NSQD	1,957	2,256,408.000

Mann-Whitney U Test Statistic : 636,038.000
p-value : 0.000
Chi-square Approximation : 109.237
df : 1

Results for PARAMETER$ = Lead

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	161	265,037.000
NSQD	3,328	5,823,268.000

Mann-Whitney U Test Statistic : 251,996.000
p-value : 0.202
Chi-square Approximation : 1.624
df : 1

Results for PARAMETER$ = Oil and Grease

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	85	49,412.500
NSQD	1,206	784,573.500

Mann-Whitney U Test Statistic : 45,757.500
p-value : 0.098
Chi-square Approximation : 2.745
df : 1

Results for PARAMETER$ = TOTAL DISSOLVED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	284	799,007.500
NSQD	3,131	5,033,812.500

Mann-Whitney U Test Statistic : 758,537.500
p-value : 0.000
Chi-square Approximation : 389.369
df : 1

Results for PARAMETER$ = NITROGEN, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	246	129,008.500
NSQD	643	266,596.500

Mann-Whitney U Test Statistic : 98,627.500
p-value : 0.000
Chi-square Approximation : 32.545
df : 1

Results for PARAMETER$ = PHOSPHORUS, TOTAL

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	211	680,689.000
NSQD	6,835	24,145,892.000

Mann-Whitney U Test Statistic : 658,323.000
p-value : 0.031

Chi-square Approximation : 4.653
df : 1

Results for PARAMETER$ = TOTAL SUSPENDED SOLIDS

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	274	1,014,264.000
NSQD	6,309	20,656,972.000

Mann-Whitney U Test Statistic : 976,589.000
p-value : 0.000
Chi-square Approximation : 13.286
df : 1

Results for PARAMETER$ = Total Coliforms

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	266	68,127.500
NSQD	161	23,250.500

Mann-Whitney U Test Statistic : 32,616.500
p-value : 0.000
Chi-square Approximation : 82.186
df : 1

Results for PARAMETER$ = Zinc

Data for the following results were selected according to
SELECT (ENTITY$ = 'NCTCOG 2') OR (ENTITY$ = 'NSQD')

The categorical values encountered during processing are

Variables	Levels	
ENTITY$ (2 levels)	NCTCOG 2	NSQD

Dependent variable	LNVALUE
Grouping variable	Col1$

Group	Count	Rank Sum
NCTCOG 2	263	466,943.500
NSQD	4,557	11,151,666.500

Mann-Whitney U Test Statistic	:	432,227.500
p-value	:	0.000
Chi-square Approximation	:	57.936
df	:	1