

**City of Fayetteville Staff Review Form**

**2022-0297**

**Legistar File ID**

**4/19/2022**

City Council Meeting Date - Agenda Item Only  
N/A for Non-Agenda Item

Matt Casey

3/30/2022

ENGINEERING (621)

**Submitted By**

**Submitted Date**

**Division / Department**

**Action Recommendation:**

Approval of a resolution to award RFQ 22-01, Selection #2 to McClelland Consulting Engineers, Inc., Olsson, Inc. and GTS, Inc. as primary providers based on rates provided and availability for on-call materials services as needed through April 30, 2023.

**Budget Impact:**

Account Number	Fund
Project Number	Project Title
<b>Budgeted Item?</b> <u>    No    </u>	Current Budget           \$           -
	Funds Obligated         \$           -
	<b>Current Balance</b> \$           -
<b>Does item have a cost?</b> <u>    No    </u>	Item Cost                 \$           -
<b>Budget Adjustment Attached?</b> <u>    No    </u>	Budget Adjustment       \$           -
	<b>Remaining Budget</b> \$           -

V20210527

**Purchase Order Number:** \_\_\_\_\_

**Previous Ordinance or Resolution #** \_\_\_\_\_

**Change Order Number:** \_\_\_\_\_

**Approval Date:** \_\_\_\_\_

**Original Contract Number:** \_\_\_\_\_

**Comments:**



**MEETING OF APRIL 19, 2022**

**TO:** Mayor and City Council

**THRU:** Susan Norton, Chief of Staff  
Chris Brown, Public Works Director

**FROM:** Matt Casey, Engineering Design Manager

**DATE:** March 30, 2022

**SUBJECT:** **Approval of a resolution to award RFQ 22-01, Selection #2 to McClelland Consulting Engineers, Inc., Olsson, Inc. and GTS, Inc. as primary providers based on rates provided and availability for on-call materials services as needed through April 30, 2023**

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**RECOMMENDATION:**

Approval of a resolution to award RFQ 22-01, Selection #2 to McClelland Consulting Engineers, Inc Olsson, Inc. and GTS, Inc. as primary providers based on rates provided and availability for on-call materials services as needed through April 30, 2023.

**BACKGROUND:**

As part of each of the City's street, drainage, water and sewer projects, a materials testing lab is contracted to perform materials testing for the design and construction. The testing includes asphalt, gravel base, concrete and various other materials used during the construction of these projects. The testing is done to ensure that the materials and the installation meet the City requirements and the project's specifications.

**DISCUSSION:**

An engineering selection committee selected McClelland Consulting Engineers, Inc., Olsson, Inc. and GTS, Inc. to be used for on-call materials testing services for street, drainage and utilities projects through April 30, 2023.

**BUDGET/STAFF IMPACT:**

Funds for the material testing have been budgeted in various capital projects with the Sales Tax Capital Improvements Fund, the Transportation Bond Fund, Drainage Bond Fund and the Water and Sewer Fund.

**Attachments:**

Testing Rate Schedules



## 2022 Field Services Unit Rate Schedule

### Special Inspections and Construction Materials Testing Services

#### Testing Services (1 3-Hour Minimum)

Field Technician <sup>1</sup> .....	Hourly	\$60.00
Senior Technician <sup>1</sup> .....	Hourly	\$75.00
Structural Steel Technician .....	Hourly	\$85.00
Project Manager / Project Engineer .....	Hourly	\$140.00
Senior Engineer / Team Leader .....	Hourly	\$150.00
Administrative Assistant .....	Hourly	\$50.00

#### Equipment

Coring Equipment .....	Daily	\$145.00
Mobile Lab .....	Monthly	\$400.00

### Laboratory Testing Services

#### Soil and Aggregate Testing

Standard Proctor .....	Each	\$175.00
Atterberg Limits .....	Each	\$95.00
Modified Proctor .....	Each	\$205.00
Oversize Correction .....	Each	\$70.00
Gradation > 3/4" .....	Each	\$140.00
Mechanical Grain Size analysis (Sieves) .....	Each	\$110.00
Percent Fines Test (passing #200 sieve) .....	Each	\$65.00
Percent Moisture Test .....	Each	\$15.00

#### Construction Materials Testing

Compressive Strength – Concrete Cylinder .....	Each	\$20.00
Compressive Strength – Grout .....	Each	\$40.00
Compressive Strength – Mortar .....	Each	\$40.00
Flexural Strength – Concrete Beam .....	Each	\$62.00

#### Asphalt Testing

Asphalt Content by Ignition Method .....	Each	\$180.00
Preparation & Density of Superpave Gyrotory Compaction Specimens (2pt) .....	Each	\$295.00
Sieve Analysis of Extracted Aggregates .....	Each	\$110.00
Theoretical Maximum Specific Gravity (Rice) .....	Each	\$190.00

#### Travel

Mileage (Portal to Portal) .....	Mile	\$0.75
Per Diem .....	Daily	\$135.00

#### Additional Notes

1. These Unit Fees are in effect until January 1, 2023. Services and fees not listed above will be quoted upon request.
2. Services provided on Saturday, Sunday, Holidays, and in excess of 8-hours/day will be charged at 1.5 times the unit fee.
3. Subcontracted services will be invoiced at our cost plus 20%.

**GENERAL:**

CMT Technician	\$ 55.00 per hour
Senior CMT Technician	60.00 per hour
CMT Supervisor	85.00 per hour
Engineering Technician/EIT	95.00 per hour
Laboratory Supervisor	75.00 per hour
Geotechnical Engineer	155.00 per hour
Construction Observation	80.00 per hour
Project Engineer	135.00 per hour
Geotechnical Project Manager	100.00 per hour
Principal Engineer	165.00 per hour
Administrative Assistant	68.00 per hour
Mileage	0.58 per mile

**SOILS:**

CMT Technician Field Testing*	55.00 per hour
Senior CMT Technician Field Testing*	60.00 per hour

\*Density Testing-Nuclear Gauge (ASTM D 2922/ AASHTO T310), Sample Pickup, or Stand-by Time

Nuclear Density Gauge Fee: (per Density Test); [Minimum \$12.00 per trip, per project]	12.00 each
Atterberg Limits Test (3-point) (ASTM D 4318 / AASHTO T89, T90)	55.00 each
Soil Sieve Analysis w/ No. 200 Wash (ASTM D 422, D 1140 / AASHTO T88)	100.00 each
Soils Classification: Atterberg Limits & Sieve Analysis	150.00 each
Standard Proctor Test ASTM D 698 or AASHTO T 99	175.00 each
Modified Proctor Test ASTM D 1557 or AASHTO T 180	200.00 each
California Bearing Ratio (CBR) ASTM D 1883/ AASHTO T193	400.00 each

\*\*\*Additional Soil Testing Procedures Available On Request\*\*\*

**CONCRETE/AGGREGATE:**

Concrete Mix Design	Price on Request
Review Concrete Mix Design Submittal (Geotechnical Engineer)	155.00 per hour
CMT Technician Concrete Field Testing*	55.00 per hour
Senior CMT Technician Concrete Field Testing*	60.00 per hour

\*(1-hour minimum): [For any of the following 6 items:]

- Concrete Cylinder, Grout, Mortar or Beam Molding
- Concrete Cylinder or Beam Pickup
- Concrete Slump Test ASTM C 143 / AASHTO T119
- Concrete Air Content Test ASTM C 231 or C 173 / AASHTO T 152
- Cement Mortar or Grout Sampling
- Stand-by Time
- Unit Weight and Yield of Freshly Mixed Concrete ASTM C 138 / AASHTO T121
- Sample Pickup, Transporting, and Processing/Placement Into Curing

Compressive Strength of Concrete Test Cylinders C 39/T22 (pad capped)	20.00 each
Compressive Strength of Concrete Test Cylinders C 39/T22 (sulfur capped)	35.00 each
Spare Cylinders Specimens Processed, Stored & Cured but not Tested	15.00 each
Schmidt Hammer Testing (Engineering Technician)	90.00 per hour

\*ACI Grade I Concrete Field Testing Technician

**CONSTRUCTION MATERIALS LABORATORY**  
**FEE SCHEDULE**  
**2022**

**CONCRETE/AGGREGATE** (Continued):

Flexural Strength of Concrete Beams ASTM C 78 or C 293	50.00 each
Spare Beam Specimens Processed, Stored & Cured but not Tested	40.00 each
Compressive Strength of Grout Cubes/Prisms	40.00 each
Compressive Strength of Cement Mortar Cubes	25.00 each
Concrete Coring (4" diameter):	
Core Machine & CMT Technician	95.00 per hour
Compressive Strength of Concrete Cores (4" diameter)	40.00 each
Other Core Sizes (sampling and testing)	Price on Request
Concrete Fine Aggregate Gradation (AASHTO T11 and T27)	175.00 each
Concrete Coarse Aggregate Gradation (AASHTO T11 and T27)	150.00 each
Aggregate Specific Gravity Testing ASTM C 127, C 128 / AASHTO T84, T85	150.00 each
Class 7 Aggregate Gradation (AASHTO T11 and T27)	200.00 each

\*\*\*Additional Concrete/Aggregate Testing Procedures Available On Request\*\*\*

**ASPHALT:**

Asphalt Mix Design (Marshall Design Method)	Price on Request
Review Asphalt Mix Design (Geotechnical Engineer)	155.00 per hour
CMT Technician Asphalt Field Testing*	55.00 per hour
Senior CMT Technician Asphalt Field Testing*	60.00 per hour
*In-place Spot Check Density Testing, Sample Pickup, or Stand-by Time	
Superpave Laboratory Analysis (Gmm, Gmb, AC Content, Air Voids, Gradation)	650.00 each
Marshall Laboratory Analysis (Gmm, Gmb, AC Content, Air Voids, Gradation)	750.00 each
Laboratory Density of Cored Samples including Thickness Measurement**	35.00 each
Asphalt Coring Machine & CMT Technician**	95.00 per hour

\*\*Testing and Sampling of 4" or 6" diameter cores

**SPECIAL INSPECTIONS:**

Spray-Applied Fire Resistant Material/Intumescent Coating Testing	90.00 per hour
Structural Steel/Welding Inspection by CWI	95.00 per hour
Non-destructive Testing on Welds (UT, MT, or Radiographic)	100.00 per hour
Post-Tension Inspection	100.00 per hour

**Services Not Listed are Available on Request**

All prices are subject to revision each year

1915 N. Shiloh Drive  
Fayetteville, Arkansas 72704

office 479-521-7645  
fax 479-521-6232

Fayetteville, Arkansas Office

City of Fayetteville

Laboratory Materials Testing Services (please call for unlisted items)

**GTS, Inc.**

Geotechnical & Testing Services

Category	Name of Test	Description	Relevant ASTM and AASHTO	Unit Rate
<i>Earthwork and Soils and Aggregates</i>	Moisture - Density Relationship	Standard Proctor	AASHTO T99, ASTM D698	\$140.00
	Moisture - Density Relationship	Modified Proctor	AASHTO T180, ASTM D1557	\$160.00
	Moisture Content	Moisture Content of soils	ASTM D2216	\$10.00
	Atterberg Limits	Atterberg Limits 3 Point Wet Preparation	AASHTO T-89, AASHTO T-90, ASTM D 4318	\$65.00
	Sieve Analysis	Washed and dried sieve used for soil classification determination (< 5 lbs)	ASTM C136 ASTM C117 AASHTO T27 AASHTO T11	\$65.00
	Sieve Analysis	Washed and dried oversized sieve (greater than 5 lbs)	ASTM C136 ASTM C117 AASHTO T27 AASHTO T11	\$130.00
	Sieve Analysis (Hydrometer)	Fine Particle Size Distribution Using the Sedimentation (Hydrometer) Analysis	AASHTO T 88 ASTM D 422 ASTM D 7928	\$105.00
	Specific Gravity and Absorption	Determination of Specific Gravity and Absorption of Fine or Coarse Aggregate	ASTM C127 AASHTO T84 / ASTM C128	\$60.00
	California Bearing Ratio (CBR) 3-point method	Evaluating the potential strength of subgrade, subbase, and base course material, for use in road and airfield pavements.	ASTM D 1883, AASHTO T 193	\$250.00

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<i>Earthwork and Soils and Aggregates</i>	Unconfined Compressive Strength Testing	Obtain a measure of compressive strength for soils that possess sufficient cohesion to permit testing in the unconfined state	ASTM D 2166, AASHTO T 208	\$100.00
	Triaxial testing**	Unconsolidated - Undrained (UU)	AASHTO T 296, ASTM D 2850	\$375.00
	Triaxial testing**	Consolidated - Undrained (CU)	AASHTO T 297, ASTM D 4767	\$500.00
	Triaxial testing**	Consolidated - Drained (CD)	ASTM WK 3821	\$750.00
	Soil Consolidation ** (One-Dimensional, Interval Loading)	Determining the magnitude and rate of consolidation of soil when it is restrained laterally and drained axially while subjected to incrementally applied controlled-stress loading.	ASTM D 2435, AASHTO T 216	\$300.00
	Permeability Testing (Flexible Wall)**	Laboratory Measurement of Hydraulic Conductivity	ASTM D5084	\$65.00
	**	sample prep or remolding	NA	\$75.00

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Category	Name of Test	Description	Relevant ASTM and AASHTO	Unit Rate
Earthwork and Soils and Aggregates	Sand Equivalency Test	This test assigns an empirical value to the relative amount, fineness, and character of claylike material present in the specimen.	ASTM D 2419, AASHTO T 176	\$150.00
	Soundness of Aggregates	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate	ASTM C 88, AASHTO T 104	\$425.00
	LA Abrasion	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C 131, AASHTO T 96	\$650.00
	Deleterious Material Determination	determination of friable particles, clay lumps, and soft fragments in an aggregate	NA	\$50.00
	Swell Test ** (One-Dimensional)	Standard Test Method for One-Dimensional Swell or Settlement Potential of Cohesive Soils	ASTM D 4546, AASHTO T 216	\$300.00
	Soil Stabilization	using fly ash, cement and lime to stabilize soils	NA	call for quote
	***For any soils and aggregate lab testing not listed please call for quote***			
Concrete and Masonry	Laboratory Compressive Strength of Cylinders	Curing, Storing and Testing (Pad Capping) 6" x 12" cylinders	ASTM C 39, ASTM C1231, ASTM C511	\$15.00
	Laboratory Compressive Strength of Cylinders	Curing, Storing and Testing (Pad Capping) 4" x 8" cylinders	ASTM C 39, ASTM C1231, ASTM C511	\$15.00



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Category	Name of Test	Description	Relevant ASTM and AASHTO	Unit Rate
Concrete and Masonry	Laboratory Flexural Strength of Beams (per beam)	Curing, Storing, Measuring and Testing	ASTM C 78, ASTM C511, ASTM C1542	\$35.00
	Laboratory Compressive Strength of drilled cores	Curing, Storing and Testing (sulfur Capping)	ASTM C 42, ASTM C 39, ASTM C617	\$45.00
	Saw cutting cylinders and drilled cores	Saw cutting ends of contractor formed cylinders to achieve a perpendicular surface (per end)	NA	\$5.00
	Petrographic Analysis	Microscopic analysis of hardened concrete	ASTM C 457	Call for Quote
	Laboratory Compressive Strength of Grout Prisms	Curing, Storing and Testing (Pad Capping) 6" x 3" x 3" prisms	ASTM C 1019	\$25.00
	Laboratory Compressive Strength of mortar cubes	Curing, Storing and Testing (Pad Capping) 2" x 2" x 2" cubes	ASTM C 109	\$15.00
	Laboratory testing of concrete masonry units	This test methods provides various testing procedures commonly used for evaluating characteristics of concrete masonry units and related concrete units.	ASTM C 140	\$120.00
Asphalt	Laboratory testing of Asphalt Cores	Laboratory Testing of asphalt cores for specific gravity (density)	AASHTO T-166	\$35.00
Fireproofing	Laboratory Density of Fireproofing (each density)	Laboratory determination of SRFM density	ASTM E 605	\$60.00

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Category	Name of Test	Description	Relevant ASTM and AASHTO	Hourly Rate	Daily Equipment Fee (if applicable)
<i>Earthwork and Soils</i>	Soil Density Testing	Materials Testing Technician performing in-place soil densities	AASHTO T310, ASTM D6938	\$65.00	NA
	Soil/Aggregate Sample Pick up	On site sampling of soils and aggregates for laboratory testing	AASHTO T2, ASTM D 75	\$65.00	NA
	Proofroll and Undercut Observation	Engineering observation of on site soils prior to placement of fill material or after undercut has been completed	NA	\$90.00	NA
<i>Concrete</i>	Field Concrete Testing	On site sampling, testing and making concrete test specimens of freshly mixed concrete	AASHTO T23, T119, T141, T152, T309, ASTM C31, C143, C172, C231, C1064	\$65.00	NA
	Concrete Cylinder Pick up (per set charge)	Retrieving concrete test specimens made by GTS or by the client	NA	\$30.00	NA
	Concrete Rebound Hammer (Schmidt Hammer)	Assess the in-place uniformity of concrete and to estimate in-place strength	ASTM C805	\$90.00	\$15.00

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Category	Name of Test	Description	Relevant ASTM and AASHTO	Hourly Rate	Daily Equipment Fee (if applicable)
<i>Concrete</i>	Concrete Coring and Sampling	Coring and sampling of hardened concrete including backfilling with grout	AASHTO T24 ASTM C42	\$65.00	\$65.00
	Concrete maturity and temperature testing	Placement and downloading of maturity and temperature information and equipment	ASTM C1074	\$90.00	NA
	Concrete maturity and temperature sensors (per sensor fee)	Field Sensors	ASTM C1074	NA	\$50.00
	Floor Flatness Determination	Evaluating and providing statistical (and graphical) information concerning floor surface profiles	ASTM E1155	\$90.00	.02 per square foot
	Concrete Floor Vapor Emission Testing	Obtaining a quantitative value indicating the rate or moisture vapor emission from a concrete floor	ASTM F1869	\$90.00	\$25 per kit
	Concrete Ph testing	Evaluating the Ph of concrete floors	ASTM F710	\$90.00	\$10 per kit
	Concrete mortar time of setting testing	Time of setting concrete by means of penetration resistance method	ASTM C403	\$90.00	\$150.00

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Category	Name of Test	Description	Relevant ASTM and AASHTO	Hourly Rate	Daily Equipment Fee (if applicable)
Concrete	Concrete Floor Relative Humidity Insitu Probe Testing	Quantitative determination of percent relative humidity in concrete slabs	ASTM F2170	\$90.00	\$50.00 per site visit
<i>Masonry, Grout and Mortar</i>	Field Grout Testing	On site sampling, testing and making grout test specimens of freshly mixed grout	AASHTO T23, T119, T309, ASTM C1019, C143, C1064	\$65.00	NA
	Field Observation of CMU Block Wall Construction	Visual observation of CMU reinforcing, joint placement, bond beams etc.	NA	\$90.00	NA
	Field Mortar Testing	On site sampling, testing and making mortar test specimens of freshly mixed preblended mortar	ASTM C1714	\$65.00	NA
<i>Asphalt</i>	Asphalt Rolling Pattern	Evaluation of density with passes of compaction equipment of fresh hot mix asphalt	ASTM D2950	\$65.00	NA
	Asphalt coring and sampling	Coring and sampling of in place asphalt including backfilling with grout	ASTM D979, AASHTO T168	\$65.00	\$65.00

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Category	Name of Test	Description	Relevant ASTM and AASHTO	Hourly Rate	Daily Equipment Fee (if applicable)
<i>Construction Observation and additional Special Inspections</i>	Observation of straight shaft drilled piers	Observation of soil type, depth, reinforcing bars, bearing capacity, etc.	NA	\$90.00	NA
<i>Construction Observation and additional Special Inspections</i>	Observation of Geopier foundations	Observation of soil type, depth, compactive effort, bearing capacity, etc.	NA	\$90.00	NA
	Observation of retaining wall installation	Observation of retaining wall construction	NA	\$90.00	NA
	Observation of soil bearing capacity for foundation elements	Observation of soil types and bearing capacity	NA	\$90.00	NA
	Observation of reinforcing bars for foundation and structural elements	Observation of size, number and placement of reinforcing bars	NA	\$90.00	NA
	Observation of driven pile foundations	Observation of driven piles, number of blows, pile size, etc.	NA	\$90.00	NA
	Observation of soil nail reinforcement	Observation of soil nails, bar size, bar length, grout type and strength, etc.	NA	\$90.00	NA
	Observation of micropile foundations	observation of micropiles, bar size, bar length, grout type and strength, etc.	NA	\$90.00	NA

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Category	Name of Test	Description	Relevant ASTM and AASHTO	Hourly Rate	Daily Equipment Fee (if applicable)
<i>Construction Observation and additional Special Inspections</i>	Observation of Post Tension concrete systems	observation of installation and tensioning of post tension cables	NA	\$90.00	NA
<i>Construction Observation and additional Special Inspections</i>	Fireproofing Observation	observation of fireproofing for thickness, density and cohesion	ASTM E605	\$90.00	NA
<i>Engineering</i>	Principal Professional Engineer	Professional Engineer services in the field or report writing	NA	\$120.00	NA
	Staff Professional Engineer	Professional Engineer services in the field or report writing	NA	\$100.00	NA
	Intern-Engineer	Intern engineer services in the field or report writing	NA	\$90.00	NA
<i>Structural Steel</i>	Certified Welding Inspector (CWI)	Code compliance, visual and ultrasonic weld inspection, bolt inspection, impact wrench calibration, etc.	Varies	\$120.00	NA
	Reinforcing Bar Locating	Locating reinforcing bars, conduits, post tension cables, etc. in concrete slabs	Varies	\$120.00	\$500.00
	Skidmore Wilhelm	Tension Calibrator	Varies	\$120.00	\$40.00
	Torque Multiplier	Used in conjunction with torque wrench for high strength bolt testing	NA	\$120.00	\$100.00

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<i>Structural Steel</i>	Torque Wrench	Used for testing torque of high strength bolts	Varies	\$120.00	\$20.00
	Ultra Sonic Testing	UT Machine	Varies	\$120.00	\$40.00
	Mag Particle Testing	Mag Particle Yoke	Varies	\$120.00	\$40.00
	x-ray services	x-ray of structural welds	Varies	upon request	upon request
	Bolt Pulling Test	Used to check the suitability and allowable loads of an anchor type and check they have been installed correctly	Varies	\$120.00	\$150.00
<i>Forensic Testing</i>	Impact Echo Services	Using sound waves to determine flaws and/or thicknesses in concrete structures	NA	\$120.00	\$250.00
	Ground Penetrating Radar	Using radar to locate, reinforcing bars or conduits in concrete, underground utilities, underground structures or tanks, etc.	NA	\$120.00	\$250 Half Day

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Category	Name of Test	Description	Relevant ASTM and AASHTO	Hourly Rate	Daily Equipment Fee (if applicable)
<i>Forensic Testing</i>	Sonic Echo Impulse Response	Non-Destructive method of determining length and integrity of concrete foundations	NA	\$120.00	\$1,000.00
	FLIR Infrared Camera Imaging	Infrared imaging of building components using a Flir E60 camera	NA	\$120.00	\$400.00
<i>Administrative and Mileage</i>	Mileage	Portal to portal rates to and from the GTS, Inc. office to the jobsite	NA	Based on published current IRS government mileage rates plus 5%	
	Report Preparation and Review (Per Report)	Includes report typing and distribution. (Technician reports only)	NA	\$10.00	10
	Overtime, Weekend, and Holiday Rates	Work requested to be performed on weekends or prior to 6:00 am and after 6:00 pm Monday through Friday will be billed an additional \$5 per hour above the normal hourly rates listed above and Holiday will be Triple the normal hourly rates. Any test scheduled before 5:00 A.M. but not performed by no fault of GTS will be a minimum charge of \$200.00.			
	Minimum Time Charge	There is a Minimum charge of 1 hour on site Time and .5 hour travel time			