

March 23, 2015

DSA File No. 57-11
DSA App. No. 02-114123
LEA No. 116

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Cost Proposal - Testing and Inspection Services - Revised

HOLMES JR. HIGH SCHOOL RELOCATABLE CLASSROOM REPLACEMENTS

1220 Drexel Drive
Davis, California

Wallace-Kuhl and Associates (WKA) is pleased to submit this proposal to provide testing and inspection services during construction of the Cesar Chavez Elementary School Relocatable Classroom Replacement project. The project consists of removal of existing classrooms, site preparation, installation of new modular classroom buildings and minor utility site work at the existing campus.

WKA prepared the *Geotechnical Engineering Report* (WKA No. 10268.01P; dated December 3, 2014) for this project. Geotechnical testing and observation during construction is considered a continuation of our geotechnical engineering investigation. Our firm is very familiar with the soil conditions at this campus and has the knowledge and experience to provide rapid assessment and recommendations if unexpected soil conditions are encountered during construction – potentially saving the District time and money.

Our budget estimate is based on review of the construction documents and discussions with project personnel. We understand our scope of work would include inspection and testing of earthwork; foundation concrete and rebar; and concrete anchors as required by the project documents, as well as preparation of the DSA required documentation.

We discussed the project schedule and off-site fabrication with the contractor. We understand the modular buildings will be manufactured by Project Frog under the DSA pre-check program, and that they provide in-house welding inspection for the relatively minor welding needed for this project. Rebar sampling and testing is not required based on the CBC and the project specifications. In addition, Project Specifications Section 07 25 00 indicates relative humidity testing (ASTM F2170) of the floor slabs prior to flooring installation will be performed by the IOR or the owner's testing lab. Our firm is experienced with this test method and would be available to perform this testing if requested. We have indicated the cost for this testing as a separate line item on the attached budget estimate - not included in the total shown below.

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Based on our experience and the scope of work shown on the attached Budget Estimate, we estimate that our fee for the special inspection and testing services required for this project would be approximately \$14,071. Billing would be only for work performed and determined based on the attached 2015P Schedules of Fees. Please be aware that we bill for our hourly services on a portal-to-portal basis from our West Sacramento office. Also, the construction schedule and the contractor's efficiency affect the number of site visits - and the cost - required for our services. Our representatives would work with the Project Inspector to perform our work in a timely and efficient manner.

To assure that all parties fully understand the limitations of our role in your project, we emphasize that our representative will not act as supervisor of construction, nor will they direct construction operations. The various sub-contractors should be informed that neither the presence of our representative nor the testing by our firm shall excuse them from defects discovered in their work. Job and site safety of the contractor's personnel will be the sole responsibility of the contractor.

Our standard agreement for this work is attached to this proposal. If this proposal is acceptable, please sign the agreement and return it to us as our written authorization to proceed. We will return a fully executed copy of the agreement to you for your files. Please inform us if wet signed copies of the agreement are required. If that is the case, please print sign and return two copies of the agreement to our office. We will then return a fully executed copy by US mail for your files.

Thank you for the opportunity to submit this proposal and please contact me with any questions.

Wallace - Kuhl & Associates



David A. Redford, PE
Senior Engineer

Attachments: Budget Estimate
Construction Testing Agreement
Schedule of Fees 2015P



Budget Estimate
HOLMES JR. HIGH SCHOOL RELOCATABLE REPLACEMENTS
 Davis, California
 Page 1

	Unit	Cost (\$) Per Unit	Estimated Quantity	Total
SOILS TESTING AND INSPECTION				
Soil Treatment Testing/Observation	hour	\$ 95.00	12	\$ 1,140.00
Shallow Foundation Inspection	hour	\$ 95.00	6	\$ 570.00
Underground Utility Trench Backfill T&I	hour	\$ 95.00	24	\$ 2,280.00
Pavement Subgrade T&I	hour	\$ 95.00	6	\$ 570.00
Pavement Aggregate Base T&I	hour	\$ 95.00	6	\$ 570.00
Flatwork Subgrade T&I	hour	\$ 95.00	6	\$ 570.00
Flatwork Aggregate Base T&I	hour	\$ 96.00	6	\$ 576.00
Laboratory Testing ASTM D1557 Curve	each	\$ 240.00	3	\$ 720.00
PROJECT ADMINISTRATION, REVIEW & REPORTS				
Project Related Meetings	hour	\$ 95.00	2	\$ 190.00
Supervising Technician	hour	\$ 95.00	2	\$ 190.00
Senior Engineer	hour	\$ 160.00	4	\$ 640.00
SOILS TOTAL				\$ 8,016.00
CONCRETE TESTING AND INSPECTION				
Concrete Mix Design Review by Senior Engineer	each	\$ 160.00	2	\$ 320.00
Reinforcing Steel Sampling and Tagging	hour	\$ 90.00	0	\$ -
Batch Plant Inspection	hour	\$ 95.00	5	\$ 475.00
Concrete Placement T&I				
Continuous and Spread Footings	hour	\$ 90.00	4	\$ 360.00
Slab-on-Grade	hour	\$ 90.00	6	\$ 540.00
Miscellaneous	hour	\$ 90.00	2	\$ 180.00
Retrieve Test Samples	hour	\$ 90.00	3	\$ 270.00
Laboratory Testing Concrete Test Cylinders - 6 sets of 4	each	\$ 25.00	24	\$ 600.00
CONCRETE TOTAL				\$ 2,745.00
POST-INSTALLED CONCRETE ANCHORS TESTING AND INSPECTION				
Concrete Anchor Proof Load Testing	hour	\$ 120.00	6	\$ 720.00
ANCHOR TOTAL				\$ 720.00
STRUCTURAL STEEL TESTING AND INSPECTION				
Shop Welding Inspection - Santa Rosa, CA	hour	\$ 95.00	8	\$ 760.00
STRUCTURAL STEEL TOTAL				\$ 760.00
WOOD PRODUCTS SPECIAL INSPECTION				
Wood Products Inspection provided by subconsultant				\$ 1,000.00
WOOD PRODUCTS TOTAL				\$ 1,000.00



Budget Estimate
HOLMES JR. HIGH SCHOOL RELOCATABLE REPLACEMENTS
Davis, California
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	Unit	Cost (\$) Per Unit	Estimated Quantity	Total
PROJECT ADMINISTRATION, REVIEW & REPORTS				
Project Administration	hour	\$ 95.00	2	\$ 190.00
Senior Engineer - Report Review / Closeout Documentation	hour	\$ 160.00	4	\$ 640.00
PROJECT ADMINISTRATION TOTAL				\$ 830.00
PROJECT TOTAL - DSA 103 FORM				\$ 14,071.00

ADDITIONAL TESTING IF REQUESTED

RELATIVE HUMIDITY TESTING				
Relative Humidity Testing	hour	\$ 120.00	8	\$ 960.00
RELATIVE HUMIDITY TOTAL				\$ 960.00



HOLMES JR. HIGH SCHOOL RELOCATABLE CLASSROOM REPLACEMENTS
Davis, California

DAVIS JOINT UNIFIED SCHOOL DISTRICT ("CLIENT") and River City Geoprofessionals, Inc. dba WALLACE - KUHL & ASSOCIATES ("WKA")
agree:

1. **PROFESSIONAL SERVICES.** WKA will perform professional services and will receive compensation pursuant to the terms and conditions of the attached proposal letter dated March 23, 2015, which is incorporated herein by reference. In performing professional services, WKA shall use that degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of the engineering profession practicing under similar conditions at the same time and in the same or similar locality. CLIENT understands and acknowledges the inherent risks connected with construction and agrees that no warranty, either express or implied, is included in this Agreement or in any drawing, specification, report or opinion produced pursuant to this Agreement.

2. **PAYMENT.** WKA will submit invoices for services rendered on a periodic basis, provided, however, said invoices shall not be submitted more frequently than once every 30 days. Invoices shall be due upon receipt, but shall not be considered delinquent if paid on or before the expiration of 30 days from date of mailing. If payment is not so made, a late payment charge shall be due on the invoice amount at the rate of one and one-half percent (1½%) per month on the unpaid balance from the date of the invoice until paid. In the event of delinquency, CLIENT shall pay the actual cost of collection including, without limitation, reasonable attorneys' fees.

3. **JOB SITE.** WKA will not act as supervisor of construction operations, nor will WKA direct or exert any control over such operations. The construction contractor(s) shall be informed that neither the presence of WKA on the job site, nor the testing by WKA shall excuse the contractor(s) for defects in any contractor's work or any contractor's non-compliance with the project plans, specifications or applicable laws, ordinances, regulations or standards, whether such defect or non-compliance is discovered during or after construction. CLIENT agrees that the construction contractor(s) will be required by CLIENT to assume sole and complete responsibility for job conditions during construction, including safety of persons and property.

4. **REPORTS.** Reports, plans and other work prepared by WKA remain the property of WKA. CLIENT agrees that all reports and other work furnished to the CLIENT and his agents not paid for will be returned upon demand, and will not be used for licensing, permits, design and/or construction.

5. **LIABILITY.** CLIENT agrees to indemnify and hold WKA harmless from any and all liability in connection with the performance of work during construction of this project, except liability arising directly from the gross negligence or willful misconduct of WKA. WKA carries workers' compensation insurance and public liability insurance for bodily injury and property damage that may be suffered by third parties and members of the public who are not covered by the limitation of liability set forth below in Paragraph 6. Certificates of coverage will be furnished to CLIENT upon written request. WKA assumes the risk of damage caused by its personnel to its supplies and equipment. In the event CLIENT desires greater insurance coverage and directs WKA to take out additional insurance, WKA shall procure and maintain additional insurance, if procurable, at CLIENT's expense; provided, however, WKA shall not be responsible for property damage and bodily injury resulting from any cause, including fire and explosion, beyond the amount and coverage of WKA's insurance.

6. **LIMITATION OF LIABILITY.** WKA's liability for damages due to alleged negligent professional acts, errors and omissions will be limited to a sum not to exceed \$50,000 or WKA's total fee, whichever is greater. Notwithstanding any other provision herein to the contrary, WKA shall not be responsible or held liable for any special, indirect or consequential damages resulting in any way from WKA's performance under this Agreement.

7. **GOVERNING LAW; DISPUTES.** This Agreement shall be governed by the laws of the State of California. Should either party hereto bring suit in court to enforce any term of this Agreement, it is agreed that each party shall pay their own legal costs, expenses and attorneys' fees.

DAVIS JOINT UNIFIED SCHOOL DISTRICT

Signature

Name printed or typed

Date

Company Address

WALLACE ■ KUHL & ASSOCIATES

Signature

David A. Redford, Senior Engineer

Name/Title CA Registered CE No. 51122, expires 9/30/15

March 23, 2015

Date

PROFESSIONAL SERVICES

PROFESSIONAL SERVICES

Principal Engineer / Geologist	\$160.00	per hour
Senior Engineer / Geologist	\$160.00	per hour
Senior Environmental Scientist	\$160.00	per hour
Project Engineer / Geologist	\$135.00	per hour
Project Environmental Scientist	\$135.00	per hour
Senior Staff Engineer / Geologist	\$125.00	per hour
Senior Staff Environmental Scientist	\$125.00	per hour
Staff Engineer / Geologist	\$120.00	per hour
Staff Environmental Scientist	\$120.00	per hour
Senior Environmental Technician	\$95.00	per hour
Senior / Supervising Technician	\$95.00	per hour
Draftsperson / GIS Technician	\$90.00	per hour
Administrative Assistant	\$70.00	per hour

FIELD INVESTIGATION TESTING

Seismic Refraction Survey	\$160.00	per hour
Thermal Resistivity Testing	\$160.00	per hour
Electrical Resistivity Survey	\$160.00	per hour
Hand Augering/Sampling - Engineer	\$145.00	per hour
Photoionization Detector	\$160.00	per hour

LITIGATION

Data Review/Consultation	\$230.00	per hour
Depositions/Expert Witness Testimony	\$340.00	per hour

EXPENSES

Vehicle Charges (<i>Subject to periodic adjustment due to fuel cost</i>)	\$0.75	per mile
Subsistence	\$55.00	per day
Lodging	Cost	
Services by Associate Firms and other outside services	Cost	plus 20%
Equipment rental, freight, special materials	Cost	plus 20%
Extra Report Copies		
Black and white versions	\$21.00	each
Color photography versions	\$32.00	each

PREMIUM CHARGES

Overtime and Saturdays	hourly rate plus	40	percent
Sunday and Holidays	hourly rate plus	75	percent

NOTE:

Premium Charges also apply to Field Services shown on Page 2



FIELD SERVICES

CONCRETE & REINFORCING STEEL

Ball Penetration (Kelly Ball)	\$120.00 /hr.
Batch Plant Inspection	\$90.00 /hr.
CaCl Moisture Emission Test Kit	\$30.00 /kit
CaCl Moisture Emission Testing	\$85.00 /hr.
CLSM/CDF/Slurry Testing	\$85.00 /hr.
Concrete Mix Design Review	\$160.00 /hr.
Concrete Placement Obs/Cast Cylinder	\$90.00 /hr.
Concrete Rebound Number Testing	\$120.00 /hr.
Concrete Trial Batch	\$90.00 /hr.
Floor Flatness Testing	\$120.00 /hr.
High Strength Grout Sampling / Testing	\$90.00 /hr.
Rebar / Post Tension Special Inspection	\$95.00 /hr.
Rebar Location / Pachometer	\$120.00 /hr.
Rebar Placement Inspection	\$95.00 /hr.
Reinforcing Steel Sampling/Tagging	\$90.00 /hr.
Relative Humidity Testing	\$120.00 /hr.
Shotcrete Special Inspection	\$90.00 /hr.
Transport Cylinders / Samples to Lab	\$90.00 /hr.

CORING

Coring (Technician + equipment)	\$120.00 /hr.
Coring (Technician assistant)	\$90.00 /hr.

POST-INSTALLED ANCHORS

Concrete Anchor Installation Inspection	\$90.00 /hr.
Concrete Anchor Proof Load Testing	\$120.00 /hr.
Concrete Anchor Torque Testing	\$95.00 /hr.
Suspended Ceiling Inspection / Testing	\$120.00 /hr.

STRUCTURAL STEEL

Fireproofing Special Inspection / Testing	\$90.00 /hr.
High Strength Bolt Special Inspection	\$95.00 /hr.
Non-Destructive Testing - UT/MT/PT	\$105.00 /hr.
Welding Special Inspection - Field	\$95.00 /hr.
Welding Special Inspection - Shop	\$95.00 /hr.

MASONRY

In-Place Masonry Flatjack Testing	\$145.00 /hr.
In-Place Masonry Shear Testing	\$120.00 /hr.
Masonry Materials Sampling / Testing	\$90.00 /hr.
Masonry Special Inspection	\$90.00 /hr.
Masonry Special Inspection DSA Certified	\$100.00 /hr.

MINIMUM CHARGES

A two hour minimum charge will apply to field technician services with the following exceptions:

- a) Single trip pickup and delivery services, where a one hour minimum will apply.
- b) Saturday, Sunday and holidays, where a four hour minimum charge will apply.

SHIFT DIFFERENTIAL

A 25 percent shift differential surcharge will be added to the hourly rate of personnel involved in scheduled testing work between the hours of 6 P.M. and 5 A.M., as well as a four hour minimum.

SOILS & ASPHALT CONCRETE

Asphalt Concrete Inspection / Testing	\$95.00 /hr.
Asphalt Concrete Materials Sampling	\$95.00 /hr.
Building Pad Special Inspection / Testing	\$95.00 /hr.
Deep Foundation Inspection	\$95.00 /hr.
Flatwork AB Inspection / Testing	\$95.00 /hr.
Flatwork Subgrade Inspection / Testing	\$95.00 /hr.
Grading Inspection / Testing	\$95.00 /hr.
Hand Augering and Sampling	\$120.00 /hr.
Pavement AB Inspection / Testing	\$95.00 /hr.
Pavement Subgrade Inspection / Testing	\$95.00 /hr.
Proof Rolling Observation	\$95.00 /hr.
Shallow Foundation Inspection	\$95.00 /hr.
Slab Subgrade Soil Moisture Tests	\$95.00 /hr.
Soil / Aggregate Sampling	\$95.00 /hr.
Soil Treatment Testing / Observation	\$95.00 /hr.
Structure Backfill Inspection / Testing	\$95.00 /hr.
Subgrade Stabilization Observation	\$95.00 /hr.
Utility Trench Backfill Testing	\$95.00 /hr.
WKA Drill Rig (including operator)	\$260.00 /hr.
WKA Drill Rig (helper)	\$95.00 /hr.

SPECIALIZED SERVICES

Coefficient of Friction Testing	\$120.00 /hr.
Existing Building Evaluation / Demo	\$90.00 /hr.
Existing Building Evaluation / Document	\$90.00 /hr.
Existing Building Evaluation / Repair	\$90.00 /hr.
Field Investigate Support	\$90.00 /hr.
FRP Installation Inspection	\$90.00 /hr.
GFRC Inspection / Testing	\$90.00 /hr.
Soil Elect. Resistivity Testing - Technician	\$120.00 /hr.
Prestress Framing Installation	\$90.00 /hr.
Proto Wall Inspection / Testing	\$90.00 /hr.
Roofing Inspection	\$90.00 /hr.
Shear Nailing Inspection	\$90.00 /hr.
Thickness Testing - Coating / Steel	\$90.00 /hr.
Timber Framing / Hardware Inspection	\$90.00 /hr.
Vapor Barrier Inspection	\$90.00 /hr.

GENERAL

Inspection / Testing Cancelled	*
Reinspection / Retesting	*
Stand-by Time	*

* Based on hourly rate of Inspection or Testing scheduled



LABORATORY SERVICES

SOIL

Atterberg Limits (LL/PI)	ASTM D4318	\$150.00	each
CLSM/CDF/Soil Cement Compression Test	ASTM D4832	\$50.00	each
Compaction Characteristics	ASTM D698	\$240.00	each
Compaction Characteristics	ASTM D1557	\$240.00	each
Compaction Characteristics	CTM 216	\$240.00	each
Expansion Index	ASTM D4829	\$175.00	each
Hydraulic Conductivity, Flexible Wall Permeability	ASTM D5084	\$400.00	each
Moisture Content	ASTM D2216	\$20.00	each
Organic Content	ASTM D2974	\$90.00	each
Resistance "R" Value - Untreated	ASTM D2844, CTM 301	\$245.00	each
Resistance "R" Value - Laboratory Lime-Treated	ASTM D2844, CTM 301	\$300.00	each
Sieve Analysis - Sieve only (Coarse or Fine)	ASTM C136/D1140	\$100.00	each
Sieve Analysis - Passing No. 200 only	ASTM D1140	\$90.00	each
Sieve Analysis - Sieve & Hydrometer	ASTM D422	\$160.00	each
Specific Gravity of Soils	ASTM D854	\$125.00	each
Triaxial Compression Test, 1 point - Undisturbed	ASTM D4767	\$250.00	each
Triaxial Compression Test, 3 Pt Staged - Undisturbed	ASTM D4767	\$295.00	each
Triaxial Compression Test, 1 point - Remolded	ASTM D4767	\$325.00	each
Triaxial Compression Test, 3 Pt Staged - Remolded	ASTM D4767	\$375.00	each
Unconfined Compression Test	ASTM D2166	\$100.00	each
Unit Weight/Moisture Content - Tube Sample	ASTM D2937/D2216	\$30.00	each
Consolidation (8 loads + 1 rebound)	ASTM D2435	\$450.00	each
Consolidation (additional loads)	ASTM D2435	\$50.00	each
Thermal Resistivity	ASTM D5334	\$50.00	each

AGGREGATE

Aggregate Unit Weight	ASTM C29	\$50.00	each
Clay Lumps and Friable Particles	ASTM C142	\$155.00	per size
Cleanness Value	CTM 227	\$160.00	each
Durability Index (Coarse or Fine)	CTM 229	\$155.00	each
Flat and Elongated Particles in Coarse Aggregate	ASTM D4791	\$115.00	per size
Fractured/Crushed Particles	ASTM D5821, CTM 205	\$115.00	per size
Organic Impurities in Fine Aggregates	ASTM C40	\$55.00	each
Resistance "R" Value	CTM 301	\$290.00	each
Sand Equivalent, 1 point	CTM 217	\$85.00	each
Sand Equivalent, 3 points	CTM 217	\$125.00	each
Sieve Analysis - Coarse or Fine	ASTM C136, CTM 202	\$100.00	each
Sieve Analysis - Passing No. 200 only	ASTM C117	\$90.00	each
Sodium Sulfate Soundness	ASTM C88, CTM 214	\$120.00	per size
Specific Gravity and Absorption (Coarse or Fine)	ASTM C127, C128	\$120.00	each

ASPHALT CONCRETE

Asphalt Content (Ignition Oven)	ASTM D6307, CTM 382	\$240.00	each
Hveem Compacted Unit Weight, 1 point	ASTM D1560/D2726		
	CTM 304/308	\$95.00	each
Laboratory Test Maximum Density (LTMD), 5 points	CTM 375	\$350.00	each
Marshall Compacted Unit Weight, 1 point	ASTM D6926/D2726	\$90.00	each
Sieve Analysis of AC Aggregate (Coarse and Fine)	ASTM D5444, CTM 202	\$165.00	each
Stabilometer Value, 1 point	CTM 366	\$125.00	each
Theoretical Maximum Density	ASTM D2041, CTM 309	\$150.00	each
Thickness of AC Cores	ASTM D3549	\$10.00	each
Unit Weight of AC Cores	ASTM D2726, D1188, CTM 308	\$50.00	each



LABORATORY SERVICES**CONCRETE**

Compression Test, Concrete Cylinder	ASTM C39	\$25.00	each
Compression Test, Concrete Cylinder - Hold	ASTM C39	\$20.00	each
Compression Test, Concrete Core	ASTM C42, C39	\$70.00	each
Compression Test, Shotcrete Core	ASTM C42, C39	\$70.00	each
Compression Test, High Strength Grout	ASTM C1107/C109	\$35.00	each
Concrete Cylinder Mold		\$4.00	each
Density / Unit Weight of Concrete	ASTM C567, C642	\$50.00	each
Flexural Strength Test, Concrete Beam	ASTM C78	\$95.00	each
Laboratory Drying Shrinkage Test, per beam	ASTM C157	\$175.00	each
Splitting Tensile Test, Concrete Cylinder	ASTM C496	\$75.00	each

MASONRY

Brick			
Compression Test	ASTM C67	\$60.00	each
Modulus of Rupture	ASTM C67	\$70.00	each
Absorption	ASTM C67	\$85.00	each
Concrete Masonry Unit			
Compression Test	ASTM C140	\$70.00	each
Absorption & Moisture Content	ASTM C140	\$70.00	each
Linear Drying Shrinkage	ASTM C426	\$175.00	each
Compression Test, Composite Masonry Prism	ASTM C1314	\$95.00	each
Compression Test, Masonry Grout	ASTM C1019	\$35.00	each
Compression Test, Mortar	ASTM C780	\$30.00	each
Core Shear Test	CBC Section 2105A	\$80.00	each

STEEL

Anchor Bolt Tensile Test	ASTM F606	\$95.00	each
Fireproofing Density Test	ASTM E605	\$65.00	each
High Strength Bolt Assembly Laboratory Testing			
Bolt - Wedge Tension Test	ASTM F606	\$70.00	each
Bolt - Proof Load Test	ASTM F606	\$70.00	each
Bolt - Hardness Test	ASTM E18	\$25.00	each
Nut - Proof Load Test	ASTM F606	\$70.00	each
Nut - Hardness Test	ASTM E18	\$25.00	each
Washer - Hardness Test	ASTM E18	\$25.00	each
Prestressing Steel Strand Tensile Test	ASTM A416/A1061	\$125.00	each
Reinforcing Steel (Rebar) Tensile Test			
Up to No. 7	ASTM A615, A706/A370	\$70.00	each
From No. 8 through No. 14	ASTM A615, A706/A370	\$95.00	each
Reinforcing Steel (Rebar) Bend Test	ASTM A615, A706/A370	\$35.00	each
Structural Steel Tensile Test			
Up to 3/4"	ASTM A370	\$70.00	each
Sizes Larger Than 3/4"	ASTM A370	\$95.00	each
Machining of Test Specimens		cost plus %20	
Structural Steel Hardness Testing	ASTM E18	\$75.00	each
Weld Assembly, Guided Bend/Macroetch/T-Bend Test	AWS D1.1, ASTM E190	\$75.00	per test
Welder Qualification Test Inspection		\$80.00	per hour
Welder Qualification Test Record		\$95.00	each

TESTING SERVICES

Laboratory Technician	\$75.00	per hour
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