

Mt. Diablo Unified School District

Independent Contract Agreement

Geosphere Consultants, Inc.

Geotechnical Engineering Study

And

Geologic Hazards Report

Portable Classroom Replacement

At

Concord and College Park High School(s)

Dated

December 8, 2009

MT. DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, CA 94519

**AGREEMENT BETWEEN
MT. DIABLO UNIFIED SCHOOL DISTRICT
AND INDEPENDENT CONTRACTOR**

THIS AGREEMENT is made this 8th day of December, by and between the Mt. Diablo Unified School District (hereinafter "District") and Geosphere Consultants, Inc. (hereinafter "Contractor").

District hereby engages Contractor to render described services under the terms and conditions of this Agreement.

1. Performance of Services

- (a) Contractor agrees to perform the services described on Exhibit "A" (hereinafter "Services") on page 4 of this Agreement as an independent contractor. Contractor will determine the means, manner, method, and details of performing the Services. Contractor shall be responsible for providing the materials, tools, transportation, and workspace necessary for the performance of the services. Contractor may, at Contractor's own expense, use non-District employees to perform the Services under this Agreement. Subcontractors may be used with the written approval of the District only.
- (b) Contractor represents that Contractor has the qualifications and ability to perform the Services in a professional manner, without the advice, control, or supervision of the District. Contractor shall be solely responsible for the professional performance of the services, and shall receive no assistance, direction, or control from District. Contractor shall have sole discretion and control of Contractor's services and the manner in which they are performed.

2. Compensation. District agrees to compensate Contractor for the performance of the Services on the following basis:

\$ 21,600.00 total fee for Services

The basis of the fee for Services shall be as follows:

- a. \$ _____ per hour,
b. \$ _____ per day, or
c. \$ X per engagement.

Check one:

- Partial Payments: Contractor shall invoice District on a monthly basis or as agreed to for all hours worked pursuant to this Agreement.
- Payment in Full: Contractor shall be paid upon completion of services after obtaining originator's signature at the bottom of this contract, indicating that services have been performed.

Contractor shall be responsible for all expenses incurred in association with the performance of the Services.

3. Term and Termination. This Agreement will become effective on December 9, 2009. This Agreement will terminate upon the completion of the Services or when terminated as set forth below.

Either party may terminate this Agreement at any time by giving thirty (30) days written notice to the other party. Should either party default in the performance of this Agreement or materially breach any of its provisions, the non-breaching party may terminate this Agreement by giving written notice to the breaching party. Termination shall be effective immediately on receipt of said notice.

4. Relationship of the Parties. Contractor enters into this Agreement as, and shall continue to be, an independent contractor. Under no circumstances shall Contractor be considered an employee of District within the meaning of any federal, state, or local law or regulation including, but not limited to, laws or regulations governing unemployment insurance, old age benefits, workers' compensation, industrial illness or accident coverage, taxes, or labor and employment in general. Under no circumstances shall

Contractor look to District as his/her employer, or as a partner, agent, or principal. Contractor shall not be entitled to any benefits accorded to District's employees, including, without limitation, workers' compensation, disability insurance, vacation, or sick pay. Contractor shall be responsible for providing, at Contractor's expense, and in the Contractor's name, disability, workers' compensation or other insurance, as well as licenses and permits usual or necessary for conducting the Services hereunder.

Contractor shall pay, when and as due, any and all local, state and federal income or other taxes incurred as a result of Contractor's compensation hereunder, including estimated taxes, and shall provide District with proof of said payments upon demand. Contractor hereby indemnifies District for any claims, losses, costs, fees, liabilities, damages, or injuries suffered by District arising out of Contractor's breach of this Section.

5. Fingerprinting and Criminal Records Check of Contractor's Employees. Contractor shall comply with the provisions of Education Code §45125.1 regarding the submission of fingerprints to the California Department of Justice and the completion of criminal background investigations of the contractor and/or its employees. Contractor shall not permit any employee to have any contact with District pupils until such time as Contractor has verified in writing to the governing board of the District that such employee has not been convicted of a felony, as defined in Education Code §45125.1.
6. Rules and Regulations. All results and regulations of the Board of Education and all federal, state, and local laws, ordinances and regulations are to be observed strictly by Contractor pursuant to this Agreement.
7. Indemnification. Contractor shall and does hereby indemnify, defend, and hold harmless District, and District's officers, employees, agents and representatives from and against any and all claims, demands, losses, costs, expenses, obligations, liabilities and damages, including, without limitation, interest, penalties, and reasonable attorneys fees and costs, that District may incur or suffer and that arise, result from, or are related to any breach or failure of Contractor to perform any of the representations, warranties, and agreements contained in this Agreement.
8. Insurance. Insurance shall be endorsed to include the District, its officers, officials, agents, employees and volunteers as additional insureds with respect to liability arising out of work or operations performed by or on behalf of the Contractor. Such insurance shall contain a provision that the insurance afforded thereby to the District and its officers, officials, agents, employees and volunteers shall be primary insurance to the full limits of liability of the policy, and that if the District, its officers, officials, agents, employees and volunteers have other insurance against a loss covered by such a policy, such other insurance shall be excess insurance only.
9. Ownership of Designs and Plans. Contractor agrees that all designs, plans, reports, specifications, drawings, schematics, prototypes, models, inventions and all other information and items made during the course of this Agreement and arising from the Services shall be owned by and assigned to District as its sole and exclusive property.
10. Notice. Any notice required or permitted to be given under this Agreement shall be deemed to have been given, served and received if given in writing and either personally delivered or deposited in the United States mail, registered or certified mail, postage prepaid, return receipt required, or sent by telegram, overnight delivery service, or facsimile transmission, addressed as follows:

<u>DISTRICT</u>	<u>CONTRACTOR</u>
Mt. Diablo Unified School District	Name: <u>Mr. Eric J. Swenson, CEG, CE</u>
1936 Carlotta Drive	Address: <u>Geosphere Consultants, Inc.</u>
Concord, CA 94519-1397	<u>2001 Crow Canyon Road, Suite 100</u>
Attn: Superintendent	<u>San Ramon, California 94583-5387</u>
	Phone: <u>(925) 314-7180</u>
	Fax: <u>(925) 855-7140</u>
	Tax ID #: <u>94-2988193</u>

Any notice personally given or sent by telegram or facsimile transmission shall be effective upon receipt. Any notice sent by overnight delivery service shall be effective the business day next following delivery thereof to the overnight delivery service. Any notice given by mail shall be effective three (3) days after deposit in the United States mail.

11. Entire Agreement of Parties. This Agreement constitutes the entire agreement between the parties and supersedes all prior discussions, negotiations and agreements, whether oral or written. This Agreement may be amended or modified only by a written instrument executed by both parties.
12. California Law. This Agreement shall be governed by and the rights, duties and obligations of the parties shall be determined and enforced in accordance with the laws of the State of California. The parties further agree that any action or proceeding brought to enforce the terms and conditions of this Agreement shall be maintained in Contra Costa County, California.
13. Attorneys' Fees. If either party files any action or brings any proceedings against the other arising out of this Agreement, the prevailing party shall be entitled to recover, in addition to its costs of suit and damages, reasonable attorneys' fees to be fixed by the court. The "prevailing party" shall be the party who is entitled to recover its costs of suit, whether or not suit proceeds to final judgment. No sum for attorneys' fees shall be counted in calculating the amount of a judgment for purposes of determining whether a party is entitled to its costs or attorneys' fees.
14. Waiver. The waiver by either party of any breach of any term, covenant, or condition herein contained shall not be deemed to be a waiver of such term, covenant, condition, or any subsequent breach of the same or any other term, covenant, or condition herein contained.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date first above written.

MT. DIABLO UNIFIED SCHOOL DISTRICT

CONTRACTOR:

By: _____
Budget Administrator Date

By:  _____
Date

Title: _____

Title: Principal Engineer

Authorized by: _____
Assistant or Associate Superintendent Date

Approved: _____
Assistant Superintendent of Personnel Date

TO BE COMPLETED BY DISTRICT BUDGET ADMINISTRATOR	
<input type="checkbox"/>	It is my determination that this contractor is not required to comply with Ed. Code §45125.1 regarding the submission of fingerprints to the Department of Justice.
OR	
<input type="checkbox"/>	This contractor is subject to the requirements of Ed. Code §45125.1 and will not begin services until I have received evidence that the Department of Justice has completed its criminal background investigation.
_____	_____
Administrator's Signature	Date

Upon completion of Services, sign below and forward original contract to Fiscal Services for payment.

Originator's Signature _____ Date _____ Phone _____
 326.8332.58.6280 - \$10,800.00
 324.8332.58.6280 - \$10,800.00
 Budget Code _____

<i>Distribution</i>	
<i>original:</i>	Fiscal Services for payment
<i>copy:</i>	Contractor
<i>copy:</i>	Originator/Budget Administrator

EXHIBIT A.1
CONTRACTOR PROPOSAL and FEE SCHEDULE



Geosphere Consultants, Inc.

AN ETS COMPANY

Geotechnical Engineering • Engineering Geology
Environmental Management • Water Resources

November 10, 2009

Mt. Diablo Unified School District
1480 Gasoline Alley
Concord, California 94520

Attention: Tim Cody

Subject: Proposal for a Geotechnical Engineering Study
and Geologic Hazards Report
Portable Classroom Replacements
College Park High School (91-02502-A and B)
Concord High School (81-02503-A and B)
Contra Costa, California
Geosphere Proposal Numbers 91-02502 and 03-A and B

Dear Mr. Cody:

Geosphere Consultants Inc., formerly the Geotechnical Division of Consolidated Engineering Laboratories (CEL) has prepared this proposal to provide geotechnical services for the proposed buildings at the above referenced schools in Contra Costa County, California. This proposal is based on experience in the general area, a site visit to each school by a Geosphere geologist, and a review of the project site plans. It is our understanding that College Park High School will be developed with one new modular building, while Concord High School will be developed with two new modular buildings (4 classrooms). The buildings will be single-story and wood framed construction. Access to the improvement areas appears adequate. Neither site is mapped as being located within a zone of moderate or high liquefaction potential

A - Geotechnical Engineering Study

The geotechnical field study will meet Title 24 requirements. These include drilling a minimum of two borings for each structure and one boring for every 5,000 sf of building footprint. Our field study will characterize the site; hence, deep borings will be located within the site area. The services to be provided for a Geotechnical Engineering Study include the following:

Preliminary Field Activities

- 1) Review available geotechnical and geologic literature for the site.
- 2) Mark the locations of the subsurface explorations at the site and contact Underground Service Alert.
- 3) Obtain a Contra Costa County Environmental Health Department drilling permit, which takes upwards of two weeks to obtain.

Field Exploration

- 1) The field exploration program will consist of drilling one boring at the College Park site and two borings at the Concord High School Site. The borings will be between 10 and 50 feet deep. Due to our previous experience with the College Park site, we can reuse some of the data and still meet the California Geologic Survey requirements.
- 2) Sampling will occur in five-foot intervals in the borings. The soil will be sampled with a Modified California sampler fitted with six-inch long inner brass liners and a Standard Penetration Test (SPT) split spoon sampler. The relatively undisturbed liner samples will be sealed and the SPT samples will be placed in plastic bags. The samplers will be driven 18 inches with a 140-pound hammer with an approximate 30-inch drop. Blowcounts for the last foot will be logged as the penetration

2001 Crow Canyon Road, Suite 100 | San Ramon, CA 94583-5367 | Tel. (925) 314-7180 | Fax (925) 855-7140



resistance. The blowcounts from the SPT sampler will be utilized to determine subsurface soil characteristics for correlation with USCS soil types. Bulk soil samples will be obtained from the upper few feet of auger cuttings in the borings.

- 3) The borings will be backfilled with cement grout under the supervision of a Contra Costa County Environmental Health Inspector. Excess drill cuttings will be spread around the site in landscaped areas.

Laboratory Testing

- 1) Several in-situ moisture and density tests will be performed on selected brass tube liner samples.
- 2) One Sieve Analysis test will be performed to determine subsurface soil characteristics for liquefaction analysis at each site.
- 3) One Atterberg Limits test to determine the expansive potential of the near surface soil at each site.
- 4) One Corrosion test will be performed as required by the 2000 CBC to determine corrosive potential of soil on buried structures at each site.

Report Preparation

- 1) Two separate Geotechnical Engineering Study reports will be prepared, one for each site containing a site plan showing boring locations, boring logs, geologic cross-sections, and a summary of the site soil and groundwater conditions. CBC seismic design parameters and other pertinent information will be provided.
- 2) Recommendations will be provided for:
 - Site clearing, preparation, grading, and drainage,
 - Foundations,
 - Concrete floor slabs,
 - Exterior concrete hardscape,
 - Temporary cut slope excavation and trench slope stability,
 - Underground utility backfilling.

Geology and Geologic Hazards Study

In accordance with the requirements of Title 24 of the 2007 CBC, two Geologic Hazards Study reports are also required. This is dictated by Note 48 of the California Geologic Survey. The Geology and Geologic Hazards Study reports would include site plans, geology maps, soil series maps, geologic cross-sections, and fault map. Geologic maps, literature, and aerial photographs will be reviewed. The local and regional geology and geologic hazards will be discussed.

Additionally, the CBC requires that a site response analysis be performed if the site is located within 10 km of an active fault. The subject sites are located within 10 km of the Concord Fault and therefore a Site Response Analysis is required.

Optional Scope of Work

We understand that many school districts have economic challenges in funding levels. We have provided a scope of work above which we believe will meet the basic requirements for submission to DSA and CGS for your proposed projects. We are providing additional scope of work items that may be required by other design team members or may reduce your risks or be of convenience to you.

B - Consultation during Design

Consultation during design may be required to provide information to other engineers or architects. This consultation is typically minor and consists of letter preparation and plan review services by a Senior Engineer or Geologist.



Private Utility Location

Our investigation will use record drawings provided by the district as well as utility location using Underground Service Alert. We are not responsible for broken or damaged utilities and costs associated with damaging utilities. The district will assume the costs and responsibilities for these utilities. To lower the risk, we can engage a private utility locator to fully locate all utilities within the vicinity of our planned borings.

CGS Permit Application and Processing

Over 50% of our work involves public school projects in Northern California and we have therefore developed good relationships within the California Geologic Survey. Recent changes to the CGS clearance process have made good relationships more important when it comes to processing a school project. As an alternative scope of work, we can put our relationships to work for our clients and assist in the processing of CGS report review and clearance. As an option, we propose the following scope of work:

- Prepare the new CGS application form for your projects including the submission of the required \$3,600 plan check fee.
- Submit the required hard copies of Geologic Hazards Reports along with plans provided by you.
- Prepare one response letter if required by CGS.

We are confident that we have provided a scope of work in our investigation that will meet the CGS requirements and the fees for this permit application will include all of our time to process CGS clearance. In the unlikely event that additional site investigation is required, we will request the district to compensate us for outside services, but all of the engineering time will be included within this scope item.

Summary of Fees

The following table provides a breakdown of the fees for this project:

Scope Item	Amount	Fee Basis
<u>Geologic Hazards Report</u>		
Includes geohazards report and required site response analysis	\$ 3,000.00	Lump Sum
<u>Geotechnical Engineering Study</u>		
Permitting and Planning	\$ 500.00	Lump Sum
Contra Costa County Environmental Health Permit/Inspection	\$ 900.00	Lump Sum
Utility Location-USA	\$ 400.00	Lump Sum
Drilling with Field Engineer	\$ 3,700.00	Lump Sum
Lab Testing	\$ 1,100.00	Lump Sum
Engineering Analysis	\$ 500.00	Lump Sum
Report Preparation	\$ 1,800.00	Lump Sum
Subtotal	\$ 8,900.00	Lump Sum
Total – Required Geologic Report and Geotechnical Report	\$11,900.00	Lump Sum
Optional Private Utility Location (cost per site)	\$ 350.00	Lump Sum
Optional Supplemental Consulting during Design – Senior Engineer or Geologist	\$160/Hr	T&M
Optional CGS Permit and Application Processing (cost per site)	\$ 4,500.00	Lump Sum

The required scope of services for the projects breaks down to a total of \$5,950 per site. 4,150

Schedule

We understand that you desire a submission to DSA in mid December. To achieve this timeline, we propose the following schedule:



Geosphere Consultants, Inc.

Geosphere Proposal Nos. 91-02502 and 03 A and B
November 10, 2009

Concord High School and College Park High School Geotechnical Investigation Schedule	
Investigation Activity	Time Period
Notice to Proceed	November 16 th
Pre-Investigation Activities including Environmental Health Permitting which required a 1 week lead time	November 16 th to 20 th
Drilling of Both Sites. only one day is required	November 23 rd to 25 th
Laboratory Testing	December 1 st to 5 th
Engineering Analysis and Report Preparation	December 1 st to 8 th
Draft Report Delivery	December 9 th
Review Comments provided by District	December 10 th to 15 th
Final Report Delivery	December 16 th

If this proposal is acceptable, please sign and return both copies of the attached Professional Services Agreement. We will return a fully executed original copy for your records. Otherwise, please provide a contract for our review. If you have any questions regarding this proposal, please contact the undersigned at 925-314-7100, mah@geosphereinc.net; eis@geosphereinc.net. We appreciate the opportunity of providing this proposal to Mt. Diablo Unified School District.

Sincerely,
GEOSPHERE CONSULTANTS, INC.

Eric J. Swenson, CEG, GE
Principal Geologist and Geotechnical Engineer

Marc Hachey, PG, CEG
Senior Geologist

Attachments: Fee Schedule
Professional Services Agreement
Report Distribution

Distribution: 2 plus PDF to Addressee (codyt@mdusd.k12.ca.us)

MAH/EJS:pmf
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Geosphere Consultants, Inc.

FEE SCHEDULE

PROFESSIONAL CONSULTING AND CONSTRUCTION OBSERVATION AND TESTING SERVICES

Task Code	PERSONNEL	UNIT RATE	UNIT
X1400X2000	Principal Engineer/Geologist	\$ 200.00	hour
X1500X2100	Senior Engineer/Geologist	\$ 160.00	hour
X1600X2200	Project Engineer/Geologist	\$ 150.00	hour
X1700X2300	Staff Engineer/Geologist	\$ 125.00	hour
X1800X2400	Assistant Engineer	\$ 95.00	hour
X3200	Technician Supervisor	\$ 90.00	hour
X3300	Field Technician	\$ 80.00	hour
X3400	Laboratory Technician	\$ 70.00	hour
X3500	Assistant Technician/Inspector	\$ 70.00	hour
X3600	Administrative	\$ 65.00	hour
	Drafting	\$ 80.00	hour
	Depositions, minimum 4 hours	\$ 300.00	hour
	Expert Witness, minimum 4 hours	\$ 400.00	hour
	Nuclear Gauge	\$ 6.00	hour
	Vehicle	\$ 6.00	hour
	SOIL AND BASE MATERIALS	UNIT RATE*	UNIT
	Moisture and Density Relationships		
02016	Compaction, Standard Proctor, ASTM D998	\$ 265.00	each
02016	Compaction, Modified Proctor, ASTM D1557	\$ 300.00	each
02016	Compaction, Checkpoint, ASTM D1557	\$ 160.00	each
02014/02015	Compaction, California Impact, CT216	\$ 300.00	each
02046/02050	Moisture/Density, Sample Tubes, ASTM D2216/D2937	\$ 30.00	each
02063	Moisture Content, Bulk Sample, ASTM D2216	\$ 20.00	each
	Particle Size Analysis		
02074	Dry Sieve to #200, ASTM D422/CT117	\$ 150.00	each
	Dry Sieve Analysis/Hydrometer, ASTM D422	\$ 265.00	each
	Hydrometer, ASTM D422	\$ 168.00	each
02076	Wet Sieve Analysis to #200, ASTM D1140	\$ 65.00	each
02075	Sieve Analysis, Bulk Sample Gradation, ASTM C136/CT202	\$ 160.00	each
	Soil Characteristics		
02040	Atterberg Limits (Plasticity Index), ASTM D4318 / CT204	\$ 200.00	each
02077	Soil Classification, ASTM D2487	\$ 350.00	each
02061	Specific Gravity, D854	\$ 110.00	each
02068	Permeability of Granular Soils (Constant Head) ASTM D2434	\$ 350.00	each
02060	Permeability, Flexible Wall, Cohesive Soil, ASTM D5084	Quotation upon request	
02061	Permeability, Rigid Piston Driven, Cohesive Soil, ASTM 5855	Quotation upon request	
	Volume Change		
02047	Consolidation, Method A Constant Load, 7 load increments, ASTM D2435	\$ 400.00	each
02048	Consolidation, Method A Constant Load, per load increment, ASTM D2435	\$ 60.00	each
02049	Consolidation, Method B Timed per load increment, ASTM D2435	\$ 500.00	each
02061	Consolidation/Swell, Cohesive Soil, per point, ASTM D4546, Methods A and B	\$ 300.00	each
02062	Consolidation/Swell, Cohesive Soil, per point, ASTM D4546, Method C	\$ 300.00	each
02010	Collapse Potential, ASTM D5333	\$ 180.00	each
02007	Expansion Index Test (UBC 29-2)	\$ 300.00	each
02050	Expansion, Shrinkage, and Upfit Pressure, ASTM D3877	\$ 400.00	each

7026 Geosphere Consultants Inc. Fee Schedule
Rev. 01/2007

* Based on standard turnaround times.
Rush tests are an additional 50%.



Geosphere Consultants, Inc.

FEE SCHEDULE

PROFESSIONAL CONSULTING AND CONSTRUCTION OBSERVATION AND TESTING SERVICES

Soil Strength				
02027	Direct Shear, 3 points, Unconsolidated-Undrained, Q-test, ASTM D3080	\$	350.00	each
02027	Direct Shear, additional points, Unconsolidated-Undrained, Q-test	\$	100.00	each
02028	Direct Shear, 3 points, Consolidated-Undrained, R-Test	\$	600.00	each
02028	Direct Shear, 3 points, Consolidated-Drained, ASTM D3080	\$	1,000.00	each
02033	Direct Shear, 3 points, Residual, ASTM D8467	\$	800.00	each
02034	Direct Shear, per point, Residual, Each Additional Cycle, ASTM D8467	\$	350.00	each
02033	Unconfined Compressive Strength, ASTM D2186	\$	120.00	each
02034	Unconfined Compressive Strength (lime or cement treated), CT373	\$	400.00	each
02034	Unconfined Compression, Field Prepared CTB, per point ASTM D656, D1632, D1633	\$	180.00	each
02033/02034	Triaxial			Quotation upon request
Subgrade Soil and Baserock				
02036	California Bearing Ratio, 1 point, ASTM D1553	\$	200.00	each
02037	California Bearing Ratio, 3 points (specified moisture), ASTM D1553	\$	600.00	each
02038	California Bearing Ratio, 3 points (96 hour soak), ASTM D1553	\$	400.00	each
02045/02039	"R" Value (no additives), ASTM D2844 / CT301	\$	300.00	each
02047	"R" Value (lime, cement, other additives) CT301	\$	350.00	each
02016	Compression, Cement Treated Base (including Preparation), Cal 312	\$	170.00	each
02071/02072	Sand Equivalent, ASTM D2419 / CT217	\$	185.00	each
02214	Durability, ASTM D3744	\$	120.00	each
Corrosivity				
02024	Corrosivity, Water Soluble Sulfate, ASTM D4327	\$	100.00	each
02032	pH, ASTM 4572	\$	40.00	each
02039/02070	Lab Resistivity	\$	80.00	each
02022	Corrosivity (pH, resistivity, chlorides, sulfate, sulfide) D4972, G57, D4327, D4658M	\$	300.00	each
02023	Corrosivity, Caltrans (pH, chlorides, sulfate, resistivity) CT 643, 417, 422	\$	300.00	each
AGGREGATES			UNIT RATE*	UNIT
Sieve Analysis				
02074	Bulk Sample Gradation (coarse or fine), ASTM C 136	\$	160.00	each
02035	Material Finer than #200 Sieve, ASTM C 117	\$	70.00	each
02075	Bulk Sample Gradation, Cal 202	\$	180.00	each
02242	Specific Gravity (coarse), ASTM C 127/Cal 206	\$	90.00	each
02241	Specific Gravity (fine), ASTM C 128/Cal 207	\$	110.00	each
02208	Absorption, Sand or Gravel, ASTM C 127/ASTM C 140	\$	80.00	each
AGGREGATES (continued)			UNIT RATE*	UNIT
02226	Organic Impurities in Concrete Sand, ASTM C 88 or ASTM C40	\$	75.00	each
02205/02204	L.A. Retrier, ASTM C 131 or C 535/Cal 211	\$	300.00	each
02244	Sulfate Soundness (per sieve), ASTM C 89	\$	140.00	each
02245	Unit Weight of Aggregates, ASTM C 29	\$	85.00	each
07005	Hardness, ASTM D 1885	\$	120.00	each
02212	Crushed Particles, Cal 205	\$	180.00	each
02012	Cleanliness Value, Cal 227 or Cal 217	\$	120.00	each
02214/02215	Durability ASTM D 3744/Cal 225	\$	120.00	each
02234	Moisture Content of Aggregate ASTM C 29	\$	70.00	each



Geosphere Consultants, Inc.

FEE SCHEDULE

PROFESSIONAL CONSULTING AND CONSTRUCTION OBSERVATION AND TESTING SERVICES

ASPHALTIC CEMENT		UNIT RATE*	UNIT
02374	Penetration of Bituminous Materials at 77°F, ASTM D5/AASHTO T49	\$ 71.00	each
02375	Penetration of Bituminous Materials at 32°F to 158°F, ASTM D 5/AASHTO T49	\$ 105.00	each
02380	Kinematic Viscosity of Asphalt, ASTM D 2170/AASHTO T201	\$ 170.00	each
02381	Absolute Viscosity of Asphalt, ASTM D2170/AASHTO T201/ASTM D2171	\$ 170.00	each
02386	Viscosity (Asphalt Institute Method) Kinematic ASTM D2170	\$ 170.00	each
02388	Rolling Thin Film Test, ASTM 2872/Cal 345/AASHTO T240	\$ 180.00	each
02323	Residue by Evaporation, ASTM D244/AASHTO T59	\$ 95.00	each
	Extraction and Recovery, ASTM D2172/ASTM D 1856	\$ 646.00	each
	MISCELLANEOUS GEOTECHNICAL CHARGES	UNIT RATE	UNIT
	All Other Direct Project Expenses (such as contract drilling and backhoe services, special equipment rental, commercial travel, protective clothing, shipping, etc.)		Cost + 15%
	BASIS OF CHARGES	UNIT RATE	UNIT
	The rates herein will be in effect through December 31, 2009. Thereafter, the unit rates are subject to an increase of 5 percent (5%) per year to mitigate the annual operating cost increases.		
	Work Over 8 Hours per Day, or on Saturdays		Time and One-Half
	Work Over 12 Hours		Double Time
	Work on Sundays/Holidays		Double Time
	Swing or Graveyard Shift Premium	\$ 6.00	hour
	Work from 0 to 4 Hours (technician services only)		4-hour Minimum Billing
	Work from 4 to 8 Hours (technician services only)		8-hour Minimum Billing
	Show-Up Time		2-hour Minimum Billing
5J	Sample Pick-Up	\$ 80.00	hour
21022	Trip Charge	\$ 80.00	trip
21023	Laboratory Testing - Rush Fee		Add 50% to Testing Cost
	Reimbursables		Cost + 15%
	QA/QC Plan Written Procedures		Quotation on Request:
	Travel Time (Portal to Portal)		Basic Hourly Rate
	Mileage	\$ 0.55	mile
	Per-diem, Including Lodging	\$ 84.00	day