



FEE SCHEDULE – DSA/OSHPD

(Effective January 1, 2019)

This schedule presents rates for professional and technical services in the fields of geotechnical engineering, engineering geology, environmental consulting, construction observation and testing, and special inspection. Listed are charges for services most frequently performed by Earth Systems. Additional services not listed are available and can be discussed upon request; fixed-fee quotes for some services can also be provided upon request. To discuss a scope of work and fees for a specific project, please contact our office.

<u>PERSONNEL</u>	<u>Hourly Rate</u>
Principal Professional.....	\$205.00
Associate Professional	\$185.00
Senior Professional	\$165.00
Project Professional.....	\$150.00
Staff Professional	\$135.00
Special Inspector, Prevailing Wage*	\$125.00
Technician, Prevailing Wage*	\$120.00
Special Services/Caltrans Technician, Prevailing Wage*	\$120.00
Special Services Technician.....	\$101.00
Special Inspector.....	\$90.00
Technical Assistant.....	\$88.00
Technician	\$85.00
Clerical/Administrative	\$75.00

* Technician/Inspector Classifications as defined by the State of California Department of Industrial Relations.

BASIS OF CHARGES

1. The prevailing wage (PW) rates presented herein are based on current rates established by the Department of Industrial Relations (DIR). If, during the course of the project, prevailing wage rates are increased by DIR, rates are subject to adjustment.
2. Field services for regular work days are subject to a 4-hour minimum charge, and billed in 4-hour increments.
3. Work performed on Saturdays, night work, and for premium hours (before 7 a.m., after 5 p.m. or more than 8 hours in one day) for personnel are at time and one-half; Sundays, holidays, and time in excess of 12 hours in one day are at double time. Also, please note requirements concerning overtime, shift work, travel time, holidays, and other factors can vary for different classifications of work under prevailing wage regulations.
4. Charges are calculated in one-hour increments and accumulate on a portal-to-portal basis.
5. A 2-hour cancellation charge applies if scheduled inspection or testing is cancelled after 3 p.m. the day prior to the scheduled work.
6. Mileage is invoiced at a rate of \$0.75/mile (portal-to-portal). Projects located within a 5-mile radius of an Earth Systems Pacific office will be charged a flat rate of \$7.50 per site visit.
7. Nuclear density gauge charge: \$10.00/test.
8. Weekly special inspection report charge: \$130.00.
9. Subcontracted services, materials, rental equipment, out of town travel, and expenses are charged at cost plus 20 percent. Fixed per diem rates for specific projects can be provided upon request.
10. Report copies: \$25.00 each (minimum). Posting of electronic documents to project websites will be charged at clerical/administrative services rate.
11. State regulations requiring electronic submittal of Certified Payroll to DIR for prevailing wage projects will be assessed a fee of \$70.00/week. Additional time required to address specific requests related to DIR/Labor Compliance will be charged at the clerical/administrative services rates.
12. Invoices are payable upon presentation. Invoices thirty days past due are subject to a service charge of one and one-half percent per month. Payments using a credit card will be assigned a 3% surcharge.
13. Rates are effective through December 31, 2019.



FEE SCHEDULE – DSA/OSHPD – MATERIALS TESTING

(Effective January 1, 2019)

BASIS OF CHARGES

Rates for field work such as materials sampling, construction inspection, and field evaluation will be in accordance with the Personnel Rates listed in the basic Fee Schedule. The below listed rates apply to standard ASTM test methods. An additional hourly charge (\$80.00/hr.) will be applied for cutting, capping, or other preparation of non-standard samples and, where noted, for steel samples.

SOILS

All prices are based on California and Modified California sample sizes (2" – 2.5" diameter) unless noted otherwise. Preparation of 3" diameter samples add \$20.00. Testing of contaminated soil will be per quote. Samples will be returned to sender for proper disposal.

Atterberg Limits: Liquid Limit or Plastic Limit.....	\$110.00
Atterberg Limits: Plasticity Index	\$195.00
California Bearing Ratio, 3 Points; Incl. Ref Maximum Density.....	\$570.00
California Bearing Ratio, 9 Points; Incl. Ref Maximum Density.....	\$940.00
Consolidation, One Dimensional	\$200.00
Consolidation, Timed, Per Point	\$95.00
Corrosivity Tests	Per Quote
Direct Shear, Per Point, 3 Points Minimum	\$100.00
Expansion Index Test	\$190.00
Maximum Density and Optimum Moisture: 4" Mold	\$250.00
Maximum Density and Optimum Moisture: 6" Mold	\$250.00
Maximum Density and Optimum Moisture: California Impact	\$290.00
Moisture and Unit Weight Determination, from Ring Samples	\$40.00
Moisture Only.....	\$35.00
Permeability Tests, Constant Head or Falling Head	Per Quote
R-Value	\$295.00
R-Value, CA State Highway/Set of 3, Cement, Lime, Other Additives	\$370.00
Hydro Collapse Potential	\$160.00
Sieve/Hydrometer Analysis, Assumed Specific Gravity, with 200 Wash	\$235.00
Sieve Analysis, Aggregate Base/Subbase	\$150.00
Sieve Analysis 200 Wash Only	\$90.00
Sieve Analysis with Wash	\$120.00
Sieve Analysis, Oversize Material	\$210.00
Specific Gravity	\$140.00
Swell Test, Undisturbed.....	\$200.00
Swell Test, Remolded	\$225.00
Unconfined Compressive Strength, Untreated	\$100.00
Unconfined Compressive Strength, Lime or Cement Treated Material	\$485.00
Environmental Recycling Fee, Per Sample	\$2.00

THERMAL RESISTIVITY TESTS

Concrete, 1 Point with Moisture Content (Requires Special Collection Process)	Per Quote
Field Testing using Thermal Resistivity Meter	Per Quote
Soil, Per Moisture Point, Per Sample	Per Quote
Soil, 3 Moisture Points with Dry-Out Curve, Per Sample	Per Quote

CONCRETE AGGREGATE

Abrasion, L.A. Rattler, 100 and 500 revolutions.....	\$270.00
Absorption, Coarse Aggregate	\$80.00
Absorption, Fine Aggregate.....	\$120.00
Clay Lumps and Friable Particles in Aggregate	\$120.00
Cleanness Value of Coarse Aggregate	\$140.00
Crushed Particles, Each Size	\$120.00
Durability Index, Coarse or Fine Aggregate	\$150.00



FEE SCHEDULE – DSA/OSHPD – MATERIALS TESTING - Continued

(Effective January 1, 2019)

CONCRETE AGGREGATE-Continued

Flat and Elongated Particles in Aggregate	\$120.00
Organic Impurities in Fine Aggregate	\$90.00
Potential Reactivity of Aggregate by Chemical Method, Each Size	Per Quote
Sand Equivalent	\$130.00
Sieve Analysis, Washed	\$150.00
Soundness, Sodium Sulfate, 5 Cycles	\$345.00
Specific Gravity, Coarse Aggregate	\$100.00
Specific Gravity, Fine Aggregate	\$135.00
Uncompacted Void Content of Fine Aggregate, with Fine Aggregate Angularity	\$235.00
Unit Weight of Aggregate	\$90.00

CONCRETE CYLINDERS, BEAMS AND CORES

Compression Test of Cast Cylinders	\$37.00
Compression Test of Cored Samples, Cored at Laboratory	\$100.00
Compression Test of Cores Delivered by Others	\$70.00
Compression Test of Lightweight Concrete	\$40.00
Density of Concrete Cylinders	\$75.00
Density of Hardened Concrete	\$90.00
Flexural Strength, Simple Beam with Third Point Loading	\$110.00
Grading of Shotcrete Cores	\$70.00
Sample Storage, Monthly Per Sample	\$40.00
Shrinkage, Set of 3	\$350.00
Unit Weight of Lightweight Concrete	\$65.00
Enviro. Recycling Fee, Per Cylinder, Core or Beam	\$2.00
Enviro Recycling Fee, Per Flex Beam	\$2.00
Enviro Recycle Fee/Form Stripping, Per Shotcrete Panel/Beam	\$60.00

MASONRY

Absorption of Block, Set of 3	\$120.00
Compression Test, 2" x 4" Mortar Cylinders	\$37.00
Compression Test, 3" x 3" x 6" Grout Samples	\$37.00
Compression Test on Block, Set of 3	\$160.00
Compression Test on Grouted Prisms, Includes Cutting	\$140.00
Compression Test on Masonry Cores	\$65.00
Coring of Grouted Masonry by Subcontractor	cost + 20%
Masonry Shrinkage, Set of 3	\$235.00
Moisture Content of Block as Received, Set of 3	\$80.00
Shear Test on Masonry Cores, 2 faces	\$105.00
Specific Gravity and Unit Weight of Block, Set of 3	\$95.00
Enviro Recycling Fee, Per Masonry Prism	\$2.00
Enviro Recycling Fee, Per Mortar or Grout Sample	\$2.00

FIREPROOFING

Fireproof Bond Test	Per Quote
Fireproofing Density Test	\$75.00

ASPHALT CONCRETE

Bulk Specific Gravity of Compacted Specimens and Core Samples	\$60.00
Compaction of Lab Samples, CA Kneading Compactor, Set of 3	\$210.00
Compaction of Lab Samples, CA Kneading Compactor, Set of 5	\$340.00
Compaction of Lab Samples, Marshall Method Set of 3 – (50 blows/side)	\$240.00
Compaction of Lab Samples, Marshall Method Set of 3 – (75 blows/side)	\$255.00
Extraction of Oil from A.C. Mixtures	Per Quote
Extraction of Oil from Rubberized Mixtures	Per Quote
Gyratory Compactor, Per Set of Field Mixed Asphalt	\$490.00



FEE SCHEDULE – DSA/OSHPD – MATERIALS TESTING - Continued

(Effective January 1, 2019)

ASPHALT CONCRETE-Continued

Hamburg Wheel Tracker Test, Per Set of Field Mixed Asphalt.....	\$790.00
Ignition Oven Binder Content, After Initial Correction Value is Determined	\$235.00
Ignition Oven Binder Content Correction Value Per Mix Design, Average of 3.....	\$785.00
Ignition Oven Gradation Correction Value, Per Mix Design	Per Quote
Moisture Content	\$40.00
Sieve Analysis of Extracted Aggregate.....	\$280.00
Sieve Analysis of Ignition Oven Residue	\$165.00
Specific Gravity, Theoretical Maximum, Rice Method	\$130.00
Stability and Flow, Marshall Apparatus, Set of 3.....	\$210.00
Stabilometer, Hveem S-Value, Set of 3	\$320.00
Enviro Recycling Fee, Per Sample	\$2.00
Enviro Recycling Fee for Extracted Oils	\$40.00

REINFORCING AND STRUCTURAL STEEL

Bend Test of Welded Specimen, Sample Preparation Not Included	\$70.00
Pipe Flattening Test, Sample Preparation Not Included	\$70.00
Reinforcing Steel Coupler Tensile and Slip Tests.....	\$170.00
Structural Steel Bend Test, Sample Preparation Not Included.....	\$70.00
Structural Steel Machining/Sample Preparation.....	cost + 20%
Structural Steel Tensile Test, Sample Prep Not Included	\$70.00
Tensile and Bend Tests of Reinforcing Bar, #2 through #9.....	\$110.00
Tensile and Bend Tests of Reinforcing Bar, #10 through #18	Per Quote
Enviro Recycling Fee, Per Sample	\$2.00

BOLT TESTS

Bolt Tests, Chemical or Mechanical.....	cost + 20%
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WELDER QUALIFICATION

AWS D1.1: 3/8" Plate, Per Position	Per Quote
AWS D1.1: 1" Plate, Per Position.....	Per Quote
AWS D1.3: Sheet Steel.....	Per Quote
AWS D1.4: Reinforcing Bar	Per Quote
ASME/API Pipe Sections	Per Quote

EQUIPMENT/CHARGES (Does Not Include Personnel)

110-Volt Portable Electric Generator	\$110.00/day
Anchor Pull Test Equipment	\$40.00/hr.
Bailer (Disposable) with Dedicated Rope	\$30.00/ea.
Concrete and Asphalt Concrete Coring Equipment.....	\$65.00/hr.
Concrete Slab Moisture Transition Kit.....	\$40.00/ea.
Conductivity Meter.....	cost + 20%
Cut-Off Saw.....	\$85.00/day
Double Ring Infiltrimeter (Per Set)	\$160.00/day
Drum Dolly.....	\$35.00/day
Drums	\$85.00/ea.
Dynamometer, In-line Scale	\$60.00/day
Hammer Drill	\$60.00/day
Hand Auger/Sampler Equipment	\$60.00/day
LOCK N' LOAD® VOC Sample Preservation System	\$30.00/ea.
Magnetic Particle Equipment	\$35.00/hr.
Manometer.....	\$110.00/day
Mini-Troll Groundwater Level Transducer	\$110.00/day
Mobile Laboratory	Per Quote



FEE SCHEDULE – DSA/OSHPD – MATERIALS TESTING - Continued

(Effective January 1, 2019)

EQUIPMENT/CHARGES (Does Not Include Personnel)-Continued

Nuclear Density Equipment, Per Test.....	\$10.00/ea.
Paint Thickness Meter	\$35.00/hr.
Percolation Tank System and Trailer	\$260.00/day
Personal Protective Equipment Level C.....	Per Quote
Pulse Velocity Meter	Per Quote
Rebound Hammer (Schmidt Hammer)	\$60.00/day
Reinforcing Steel Locating Equipment (DR-Meter)	\$110.00/day
Safety and Specialty Equipment	Per Quote
Sampling Consumables	Per Quote
Skidmore Bolting Calibration Equipment	\$85.00/day
Slope Inclinator Equipment, Per Hole	\$35.00/day
Soil Sampling Containers (Metal)	\$25.00/ea.
Soil Sampling Containers (Glass)	\$9.50/ea.
Tape Extensometer	\$35.00/hr.
Tension Equipment	\$210.00/day
Torque/Tension Equipment	\$210.00/day
Water Level Indicator	\$55.00/day
Winsor Probe, Set of 3.....	\$110.00/day
Per Diem	Per Quote
DIR Compliance/eCPR, Per Week	\$75.00
DSA Box Posting, Per Week	\$75.00
Vehicle Mileage Charge	\$0.75/mile



FEE SCHEDULE – DSA/OSHDP – DRILLING SERVICES

(Effective January 1, 2019)

DRILLING AND SAMPLING CAPABILITIES

- Geotechnical borings to depths of 90 feet.
- Borings for hazardous materials studies.
- Monitoring well and piezometer installation.
- Drill crews experienced in hazardous materials drilling and sample acquisition.
- Drill crews trained in 40-hour Health and Safety course (HAZWOPER).
- Steam cleaners, grout mixers, and other auxiliary equipment available.
- Standard Penetration Sampler (2" o.d. split spoon).
- Modified California Sampler (lengths: 18", 24", 3" o.d.; 2.5" i.d. rings); resin fiber, brass, or stainless steel rings available.
- Shelby Tubes (3" i.d.).

DRILLING RATES (PREVAILING WAGE)

DRILLING EQUIPMENT/PERSONNEL

Mobile B-53 with driller and helper	\$330.00/hr.
Simco EP200 direct-push rig	\$330.00/hr.
Additional drill helper	\$115.00/hr.
Driller/Rig preparation	\$115.00/hr.
Staff Professional	\$135.00/hr.

AUXILIARY EQUIPMENT/MISCELLANEOUS

Support truck	\$115.00/day + \$0.75/mile
Drill support trailer	\$130.00/day
Generator	\$115.00/day
Per diem	Per Quote
Traffic control equipment (signs, cones)	Per Quote

Hourly rates for prevailing wage projects are subject to adjustment based upon changes in general prevailing wage determinations or their application by the Department of Industrial Relations (DIR). Rates are effective through June 30, 2019.

BASIS OF CHARGES

1. Minimum drill time is 4 hours. Drill crew overtime (hours more than 8 hours a day) and Saturday work are 1.5 times the hourly rate. Sunday work is two times the hourly rate. Holiday work is per quote.
2. Rates for 3-man crew available on request.
3. Assembly and demobilization of materials are charged at an hourly rate of \$80.00/hr.
4. Subcontractors are charged on a cost plus 20% basis.
5. Materials are charged on a cost plus 20% basis.
6. Drilling in material that causes more than normal wear to the equipment may be subject to additional charges. The client will be notified prior to drilling in such material.
7. Earth Systems Pacific's drillers and drill crews have been trained in the 40-hour course developed by the EPA and will satisfy the Federal OSHA requirements (29-CFR 1910-120) for personnel working on sites containing hazardous materials.
8. Drilling jobs must be confirmed a minimum of 48 hours prior to the start of work. Jobs cancelled less than 48 hours prior to the start of work will be subject to the 4-hour minimum charge, plus any charges for material acquisition, rig preparation, etc., that have been incurred.
9. The client is responsible for the accurate location of all subterranean structures and utilities, and agrees to waive any claim against Earth Systems Pacific for damage done to subterranean structures and utilities not identified or accurately located. The client also agrees to obtain free access to the site for all equipment and personnel necessary for Earth Systems Pacific to perform the work.



FEE SCHEDULE – DSA/OSHDP – EXPERT WITNESS SERVICES

(Effective January 1, 2019)

The following rates apply to deposition testimony, arbitration testimony, hearings and court appearances.

HOURLY CHARGES FOR PERSONNEL

Principal Professional	\$420.00
Associate Professional	\$320.00
Senior Professional	\$275.00
Clerical/Admin Services	\$110.00

SPECIAL SERVICES

Deposition	\$420.00/hr.
Arbitration	\$420.00/hr.
Court Appearance/Hearings	\$2,000.00/half day
Standby to Appear	\$1,000.00/day

BASIS OF CHARGES

1. Hourly rates are charged during investigation, analysis, consultation, and preparation services.
2. Estimated deposition fee payable in advance by party requesting deposition. The difference between advance payment and final fee to be billed or refunded in accordance with the fee and billing information in this schedule. Fee for reviewing deposition transcript will be billed at hourly rates to the party requesting the review.
3. Minimum half day charge will apply to court appearances and hearings. Time extending through the noon hour will be subject to the full day charge of \$3,000.00.
4. Days, or portions thereof, reserved for appearances at hearings, court, or arbitrations, during which we are not required to be away from our offices will be subject to a standby charge of \$750.00. Standby at other locations will be charged at the general hourly rates.