

### SUMMARY OF LABORATORY FEES

Effective February 2022

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LAB CODE	TEST SPECIFICATION	STANDARD TURNAROUND (BUSINESS DAYS) *	STANDARD PRICING*	RUSH TURNAROUND (BUSINESS DAYS)*	RUSH PRICING*
<b>SOIL AND ROCK</b>					
8800	Caltrans Relative Compaction, CT216	3	\$400	Same Day	\$800
9100	Clay Lumps and Friable Particles, ASTM C142	5	\$105	Next Day	\$210
9130	Cleanness Value, CT 227 each	5	\$250	2	\$500
8310	Compaction, ASTM D1557 (A-C)	4	\$350	2	\$700
8311	Compaction Point, AASHTO T272	4	\$370	2	\$740
8312	Compaction, ASTM-1557 (A-D) or ASTM-D698 with Correction	4	\$420	2	\$840
8313	Compaction, ASTM 1557 (A-D), Same Day Preliminary Results	1	\$730	N/A	N/A
8314	Compaction, ASTM-1557 or ASTM-D698, Same Day with Correction	1	\$840	N/A	N/A
8315	Compaction, Rock Correction, ASTM D4718	4	\$94	Next Day	\$187
8316	Compaction, ASTM D4253, Vibratory Table	4	\$440	2	\$880
8317	Compaction, Cemented Treated, ASTM D558	5	\$440	3	\$880
8220	Consolidation – Incremental Loading ASTM D2435, Method A	32	\$600	16	\$1,200
8221	Consolidation – Incremental Loading ASTM D2435, Method B	32	\$635	16	\$1,270
8230	Consolidation, ASTM D2435 Unload – Reload Cycle	4	\$80	2 Additional	\$160
8410	Consolidation – CRS, ASTM D4186, Depths from 0 to 75 feet	5	\$650	4	\$1,300
8411	Consolidation – CRS, ASTM D4186, Depths from 75 feet and below and/or stiff clays	5	\$770	4	\$1,540
Additional Unload – Reload Cycle (for CRS, Lab Code 8410 and 8411 only)					
8412	Stress Range: 1 - 5 ksf	Variable	\$170	N/A	\$340
8413	Stress Range: 5 - 10 ksf	Variable	\$255	N/A	\$510
8414	Stress Range: 10 - 15 ksf	Variable	\$340	N/A	\$680
8415	Stress Range: 15 - 20 ksf	Variable	\$420	N/A	\$840
8184	Deep Soil Mix (DSM) Compression Test	5	\$94	2	\$188
8201	Direct Shear – CD, Additional Cycles (per point) ASTM D3080	2	\$82	N/A	\$164
8202	Direct Shear – CD, (2-points) ASTM D3080	8	\$550	5	\$1,100
8203	Direct Shear – CD, (3-points) ASTM D3080	12	\$770	8	\$1,540
8204	Direct Shear – CD, (4-points) ASTM D3080	16	\$950	12	\$1,900
8451	Direct Shear – CD, (Additional Point) ASTM D3080	5	\$275	3	\$550
8991	Cyclic Simple Shear Test (CSS), ASTM D8296	5	\$2,100	5	\$4,200
8992	Monotonic Simple Shear Test, ASTM D6528 - NOT AVAILABLE AT THIS TIME	5	\$1,000	5	\$2,000
8900	Durability Index, CT229	5	\$275	Next Day	\$550
8320	Expansion Index, ASTM D4829	8	\$450	4	\$900
8321	Expansion Index, ASTM D4829 - Lime Treated in Lab	Dependent on cure time	\$495	Dependent on cure time	\$990
9630	Fine Aggregate Angularity Percentage, CT 234, AASHTO T304, Method A	5	\$160	Next Day	\$320
8990	Laboratory Miniature Vane Shear (peak Value), ASTM D4648	5	\$140	Next Day	\$280
8160	Moisture Content & Unit Weight, ASTM D7263	5	\$68	Next Day	\$136
8140	Moisture Only, ASTM D2216, CT 226	5	\$45	Next Day	\$90
8150	Moisture Only, ASTM D4643, CT 370 (By Microwave oven)	5	\$110	Same Day	\$220
9590	Organic Content of Soil ASTM D2974	5	\$180	Next Day	\$360
9090	Organic Impurities, ASTM C40	5	\$160	Next Day	\$320
9120	Percent Crushed Particles, CT205	5	\$185	Same Day	\$370

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9110	Percent Flat or Elongated Particles, ASTM D4791, CT 235	5	\$210	Same Day	\$420
8980	Soil pH, percent Lime for Stabilization, ASTM D6276 (Eades and Grimm)	5	\$440	Next Day	\$880
8040	Hydraulic Conductivity, Falling Head or Constant Head, ASTM D5084 Currently Unavailable	8	\$550	4	\$1,100
8870	Soil pH, ASTM D4972, CT 643	5	\$110	Same Day	\$120
8190	Plasticity Index, Dry Method - ASTM D4318	5	\$270	Next Day	\$540
8191	Plasticity Index, Wet Method - ASTM D4318 (ASTM Default method)	5	\$270	Next Day	\$540
8510	Rock Core Unconfined Compressive Strength, ASTM D7012	5	\$315	Same Day	\$330
8970	R-Value - Lime Treated, ASTM D2844 CT301	6	\$550	3	\$1,100
8290	R-Value, ASTM 2844, CT301	6	\$475	3	\$950
8280	Sand Equivalent, CT 217, ASTM D2419	5	\$215	Next Day	\$430
8261	Dry Sieve, ASTM D1140, C117	5	\$170	Next Day	\$340
8262	#200 Wash, ASTM D1140, C117	5	\$120	Next Day	\$240
8263	Sieve & #200 Wash, ASTM D422, D6913, C136, CT202	5	\$190	Next Day	\$380
8264	Sieve & Hydrometer, ASTM D422, D7928	5	\$300	2	\$600
8250	Specific Gravity, ASTM D854	5	\$250	Next Day	\$500
8251	Specific Gravity, ASTM C127 or C128	5	\$132 Per Size Fraction	Next Day	\$265 Per Size Fraction
8660	Specimen Remolding and/or Lab Mixing (per specimen)	Varies	\$130	Dependent on type of remolding	\$260
8240	California Bearing Ratio (CBR), ASTM D1883	4	\$265	Next Day	\$530
9070	Sulfate Soundness, CT 214, ASTM C88	6	\$270/ Fraction	Dependent on number of fractions	\$540/ Fraction
8111	Sulfate Testing in Soils ASTM C1580	5	\$220	Next Day	\$440
8490	Swell Test A, per point ASTM D4546 - 2004	5	\$370	4	\$740
8500	Swell Test B, per point ASTM D4546 - 2004	5	\$400	4	\$800
8501	Swell Test C, per point ASTM D4546 - 2004	5	\$350	4	\$700
8491	Swell/Collapse Test A, per point ASTM D4546	8	\$375	4	\$750
8503	Swell/Collapse Test B, per point ASTM D4546	5	\$375	Dependent on material behavior	\$750
8502	Swell/Collapse Test C, per point ASTM D4546	5	\$400	Dependent on material behavior	\$400
8170	Soil Cement – Wet/Dry Durability, ASTM D559	Varies	\$1,250	N/A	\$2,500
8350	Isotropic Triaxial Compression – CU, Single Specimen, Multistage Test ASTM D4767 - Modified	Varies	\$1,050/ Stage	Dependent on number of stages and material type	\$2,100/ Stage
8340	Isotropic Triaxial Compression – CU (1- point ) ASTM D4767, USACE	5	\$580	4	\$1,160
8341	Isotropic Triaxial Compression – CU (2 points) ASTM D4767, USACE	9	\$1,160	8	\$2,320
8342	Isotropic Triaxial Compression – CU (3 points) ASTM D4767, USACE	14	\$1,825	12	\$3,650
8343	Isotropic Triaxial Compression – CU (4 points) ASTM D4767, USACE	18	\$2,350	15	\$4,700
8330	Isotropic Triaxial Compression – UU (per point) ASTM D2850, USACE	5	\$210	Next Day	\$420
8180	Unconfined Compression - Soils, ASTM D2166	5	\$140	Next Day	\$280
8181	Unconfined Compression, Lime/Cement-Treated Soil ASTM D5102/D1633	18	\$365	9	\$730
8182	Unconfined Compression, Lime/Cement-Treated Soil CTM 373	18	\$1,050	9	\$2,100

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8183	Unconfined Compression, Lime/Cement -Treated Soil, Additional points	18	\$60	9	\$120
8179	Unconfined Compressive Strength Testing, Soil-Cement-Bentonite Slurry (field sample), ASTM D1633	Dependent on the specified break schedule	\$200	Dependent on the specified break schedule	\$400
<b>CONCRETE</b>					
9220	Absorption, ASTM C642	6	\$475	Next Day	\$950
9013	Shotcrete, Field cores (cored in the field), per core, ASTM C42	5	\$110	2	\$220
9014	Shotcrete, Lab cores (Cored from panels in the lab), per core, ASTM C42	5	\$175	2	\$350
9320	Compression Test, per 6" x 12" cylinder, ASTM C39	5	\$48	Same Day	\$96
9330	Compression Test, per 4" x 8" cylinder ASTM C39	5	\$44	Same Day	\$88
9941	Flexural Strength of Concrete Beams (4"x4"x14") ASTM C78	5	\$135	Same Day	\$270
9940	Flexural Strength of Concrete Beams (6"x6"x20") ASTM C78	5	\$150	Same Day	\$300
9340	Compressive Strength of Lightweight Insulating Concrete (ASTM C495)	5	\$165	Same Day	\$330
9020	Core Trimming, In Laboratory	5	\$70	Same Day	\$140
9950	Thickness of Drilled Concrete Cores, ASTM C174	5	\$40	Same Day	\$80
9060	Laboratory Trial Batch, ASTM C192, Including Test Cylinders	5	\$1,000	Same Day	\$2,000
9080	Length Change (3 bars, 4 readings, up to 90 days), ASTM C157 modified	28-90	\$610	28-90	\$1,220
9050	Slab Moisture Determination Test Kit	5	\$40	Next Day	\$80
9000	Unit Weight of Lightweight Concrete Cylinders (ASTM C495)	5	\$60	Next Day	\$120
<b>CONCRETE MASONRY UNITS</b>					
9160	Compression, ASTM C140	5	\$120	Same Day	\$240
9140	Moisture Content as Received, Absorption ASTM C140	5	\$80	Next Day	\$160
<b>MASONRY PRISMS</b>					
9190	Compression Test, Grouted Prisms, ASTM C1314	5	\$325	Next Day	\$650
9200	Trimming Grouted Prisms	5	\$150	Next Day	\$300
<b>MORTAR &amp; GROUT</b>					
9250	Compression Test 2" Mortar Cubes, ASTM C109	5	\$70	Next Day	\$140
9240	Compression, Grout Prisms, ASTM C39	5	\$72	Next Day	\$144
9230	Compression, Mortar Cylinder, ASTM C39	5	\$70	Next Day	\$140
<b>ASPHALTIC CONCRETE</b>					
8010	AC Correction Factor, ASTM D6307, CT 382	N/A	N/A	N/A	\$625
8020	RAP Aggregate Gradation Correlation Factor, Caltrans LP-9	N/A	N/A	N/A	\$3,000
8070	AC Maximum Density (Avg. of 3 Briquettes) D1188, CT308	N/A	N/A	N/A	\$620
8071	AC Maximum Density (Avg. of 3 Briquettes) D1188, CT 308 (S-Value is performed prior to LTMD)	N/A	N/A	N/A	\$550
8090	AC Maximum Theoretical Unit Weight ASTM D2041, CT 309 (Rice Specific Gravity)	N/A	N/A	N/A	\$470
9460	Asphalt Core Density (4" Core), ASTM D1188, ASTM 2726, CT308	N/A	N/A	N/A	\$140
9461	Asphalt Core Density (6" Core), ASTM D1188, ASTM 2726, CT 308	N/A	N/A	N/A	\$165
9462	Thickness of Asphalt Cores, CT 308	5	\$42	2	\$84
8532	Extraction by Centrifuge ASTM 2172	N/A	N/A	N/A	\$550
8531	Extraction by Ignition Oven, ASTM D6307, CT 382	N/A	N/A	N/A	\$420
8533	Extraction by Reflux Extractor, ASTM D2172 – Method B	N/A	N/A	N/A	\$860
8050	Stability Test (Avg. of 3 Briquettes), ASTM D1560, CT 366, (w/o Max. Density test)	N/A	N/A	N/A	\$850
8060	Marshall Stability and Flow of Bituminous Mixtures, ASTM D6927	5	\$350	3	\$700

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<b>VOLUMETRIC PROPERTIES OF HMA</b>					
9660	Absorbed Asphalt Binder CT 367	N/A	N/A	N/A	\$210
9600	Air Void Content	N/A	N/A	N/A	\$210
9670	Bulk Specific Gravity – Admixture Blend CT 367	N/A	N/A	N/A	\$210
9640	Dust Proportions, CT 367, Caltrans LP-4	N/A	N/A	N/A	\$210
9680	Effective Asphalt Binder of Volume, CT 367	N/A	N/A	N/A	\$210
9690	Effective Binder Content, CT 367	N/A	N/A	N/A	\$210
9580	Effective Specific Gravity of Aggregate-Admixture Blend, CT 367	N/A	N/A	N/A	\$210
9620	Void Filled With Asphalt CT 367, LP-3	N/A	N/A	N/A	\$210
9610	Voids in Mineral Aggregate CT 367, LP-2	N/A	N/A	N/A	\$210
Note: Lab fees for volumetric properties of HMA per CT 367 are based on tests CT 202, CT 308, CT 309, and CT 382 have been completed.					
<b>FIREPROOFING</b>					
9990	Oven Dry Density, Fireproofing, per sample	5	\$110	Next Day	\$220

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- \*Rush turnaround times are calculated based on the average minimum time required to complete the test and remain compliant with the applicable test standard.
- \*Rush turnaround time prioritizes rush testing over other requested testing and dedicates a technician to complete the rush testing as quickly as possible. Rush turnaround times are estimates only and do not guarantee test completion within the estimated rush testing timeframe.
- \*Test turnaround time is the amount of time required to perform the test once started. Test start times are dependent on available labor and equipment. Please contact Lab Services at [labservices@engeo.com](mailto:labservices@engeo.com) to determine equipment capacity and availability. Turnaround times are estimates only and do not guarantee test completion within the estimated testing timeframe.
- \*The testing fees and test durations listed reflect the standard business hours required to perform the test. Samples requiring premium handling will incur additional hourly personnel charges in accordance with the Laboratory Technician Rate presented on our Fee Schedule.
- Add three days to the estimated test duration for soil testing that requires remolded specimens.
- The above fees are reviewed annually and are subject to change. Additional tests are available upon request.
- Prices exclude field collection and transportation to the laboratory.
- Supplemental fees for laboratory preparation of specimens are charged on an hourly basis.
- Where tests are to be run on an immediate need basis (tests to be initiated out of order received and regardless of status of other previously received samples), the expediting fee is 100% of the listed unit rate.
- Sample storage is \$100 per month per cubic yard of storage space.
- There is a 3:00 pm cut-off time for sample delivery/test start time.
- Turnaround times are based on samples delivered to the laboratory before 3:00 pm. Turnaround time on samples received after 3:00 pm will begin at 7:00 am the following business day.
- Concrete/masonry compression breaks requested prior to the scheduled break date and/or prior to 7:00 am will be considered rush testing requests and billed a rush fee.
- Witness testing will be billed at \$150.00/hour per individual witness. Needs a labor code. 1 unit = \$150.
- There is a 100% increase in fees per test for testing contaminated samples.
- Disposal charges for contaminated samples will be billed to the project on a time-and-expense basis.
- All project required weekend work is billed directly to the project with a 2-hour minimum charge.
- Samples requiring premium handling, such as searching for testable portions (Shelby, D&M tubes, etc.), will be billed on a time-and-expense basis to the project.