

MATERIALS LAB FEE STUDY
 FEE STUDY FOR FY 2021-2022 through FY 2022-23
 PROPOSED FEES

CTM	AASHTO	Test Description	Current Rate	FY 21-22 Proposed Rate	Variance from Current Rate	FY 22-23 Proposed Rate	Variance from Proposed FY 21-22 to FY 22-23
Field Inspection and Testing (Hour)							
125		Materials Inspection (Plants)	\$ 96.00	\$ 103	7%	\$ 105	3%
231		In-Place Density (Compaction)	\$ 96.00	\$ 103	7%	\$ 105	3%
375		AC In-Place Density	\$ 96.00	\$ 103	7%	\$ 105	3%
Laboratory Testing (Each)							
202	T27 T30	Grading					
		Coarse	\$ 32.00	\$ 38	22%	\$ 40	3%
		Fine	\$ 94.00	\$ 114	22%	\$ 118	3%
203	T88	Hydrometer					
		Only	\$ 194.00	\$ 239	23%	\$ 246	3%
		Includes Grading	\$ 257.00	\$ 316	23%	\$ 325	3%
205	T335	Percent Crushed Particles	\$ 122.00	\$ 150	23%	\$ 154	3%
		Specific Gravity					
206	T85	Coarse Aggregate	\$ 80.00	\$ 98	23%	\$ 101	3%
207	T84	Fine Aggregate	\$ 207.00	\$ 255	23%	\$ 261	2%
208		Bituminous Aggregate	\$ 92.00	\$ 113	23%	\$ 116	3%
211	T96	Abrasion by LA Rattler	\$ 158.00	\$ 194	23%	\$ 199	3%
216		Maximum Unit Weight (Compaction)					
		One Mold	\$ 158.00	\$ 169	7%	\$ 174	3%
		Wet Curve	\$ 233.00	\$ 287	24%	\$ 295	2%
		Dry Curve	\$ 241.00	\$ 304	26%	\$ 312	3%
	D1557	Dry Curve	\$ 274.00	\$ 338	23%	\$ 347	3%
217	T176	Sand Equivalent					
		One Tube	\$ 50.00	\$ 60	20%	\$ 62	3%
		Two Tube w / statistics	\$ 98.00	\$ 111	14%	\$ 115	3%
226	T255	Moisture Content					
		Moisture Content	\$ 10.00	\$ 13	30%	\$ 13	0%
		Moisture Content - Slurry Seal (1)	\$ 49.00	\$ 52	6%	\$ 53	2%
227		Cleanness Value					
		No. 2 Rock	\$ 197.00	\$ 242	23%	\$ 249	3%
		No. 3 Rock	\$ 95.00	\$ 117	23%	\$ 120	3%
		No. 3 / No. 4 Rock Combined	\$ 105.00	\$ 129	23%	\$ 133	3%
229	T210	Durability Factor					
		Fine	\$ 98.00	\$ 120	22%	\$ 123	3%
		Coarse	\$ 122.00	\$ 150	23%	\$ 154	3%
301	T190	R-Value					
		Untreated	\$ 423.00	\$ 523	24%	\$ 537	3%
		Treated	\$ 735.00	\$ 679	-8%	\$ 697	3%
304	T247	S-Value (Plant Mixed)					
		Max Density of Bituminous Mixes	\$ 108.00	\$ 83	-23%	\$ 85	2%
		S-Value	\$ 140.00	\$ 318	127%	\$ 327	3%
308	T275	Density - AC Core	\$ 108.00	\$ 211	95%	\$ 217	3%
366	T246	S-Value (Lab Mixed)	\$ 324.00	\$ 479	48%	\$ 492	3%
417		Sulfate Content Modified 10:1	\$ 356.00	\$ 440	24%	\$ 451	3%
521	T22 T231	Compression Strength PCC Cylinders	\$ 50.00	\$ 60	20%	\$ 62	3%
643	T288 T289	pH and Resistivity of Soils	\$ 139.00	\$ 171	23%	\$ 176	3%
	D3080	Direct Shear					
		Undisturbed	\$ 394.00	\$ 486	23%	\$ 499	3%
		Remolded	\$ 483.00	\$ 597	24%	\$ 613	3%
382	T308	AC Ignition Oven					
		Binder Content or Emulsion Content Only	\$ 135.00	\$ 108	-20%	\$ 111	3%
		Binder Content and Grading	\$ 455.00	\$ 215	-53%	\$ 220	2%
	D2974	Percent Organic (1)	\$ 64.00	\$ 79	23%	\$ 81	3%
	D3910	Wet Track Abrasion Test	\$ 85.00	\$ 108	27%	\$ 111	3%
	C42	Concrete Panel Cores (1)	\$ 168.00	\$ 189	13%	\$ 194	3%

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CTM	AASHTO	Test Description	Current Rate	FY 21-22 Proposed Rate	Variance from Current Rate	FY 22-23 Proposed Rate	Variance from Proposed FY 21-22 to FY 22-23
	Central Mining Equipment (CME): Truck Mounted Drill Rig CME 55, Truck Mounted Drill Rig CME 45C, Truck Mounted Drill Rig CME 850	Drilling Services with 2-man Crew (1 & 4)	\$ 364.00	\$ 298	-18%	\$ 308	3%
	Central Mining Equipment (CME): Truck Mounted Drill Rig CME 55, Truck Mounted Drill Rig CME 45C, Truck Mounted Drill Rig CME 850	Drilling Services with 3-man Crew (1 & 4)	\$ 470.00	\$ 298	-37%	\$ 308	3%
	Central Mining Equipment (CME) . Truck Mounted Drill Rig CME 45C	Asphalt or Concrete Coring (1 & 4)	\$ 347.00	\$ 298	-14%	\$ 308	3%

New Fee (*)

CTM	AASHTO	Engineering Services	FY 21-22 Proposed Rate	FY 22-23 Proposed Rate	Variance from Proposed FY 21-22 to FY 22-23
		Engineering Report	\$167/ hour	\$172/hour	3%

Materials Lab Fee Study
 Fee Study for FY 21-22 through FY 22-23 Rates
 Neighboring Comparison

CTM	AASHTO	Test Description	Geo-Advantac	GMU Geotechnical	Group Delta	Kleinfelder	Ninyo & Moore Geotechnical Environmental Science Consultants	Average of Private Companies	Orange County Materials Lab Existing Rate	Orange County Materials Lab Proposed Rate	Proposed Rate Variance from Private Company Average	Los Angeles County
125		Materials Inspection (Plants)	\$110.00	\$186.65	\$125.00	\$174.00	\$109.00	\$140.93	\$96.00	\$103	-27%	\$174.19
231		In-Place Density (Compaction)	\$105.00	\$186.65	\$125.00	\$174.00	\$108.00	\$139.73	\$96.00	\$103	-26%	\$129.00
375		AC In-Place Density	\$105.00	\$186.65	\$125.00	\$174.00	\$108.00	\$139.73	\$96.00	\$103	-26%	\$129.00
		LAB TESTING										
202	T11 T27 T30	GRADING										
		Coarse	\$150.00	\$240.00	\$120.00	\$165.00	\$145.00	\$164.00	\$32.00	\$38	-76%	\$280.00
		Fine	\$150.00	\$240.00	\$120.00	\$165.00	\$145.00	\$164.00	\$94.00	\$114	-30%	\$280.00
203	T88	HYDROMETER										
		Only							\$194.00	\$239		
		Includes Grading	\$180.00	\$366.00	\$273.00	\$185.00	\$145.00	\$229.80	\$257.00	\$316	38%	\$432.00
205	T335	% Crushed Particles	\$180.00	\$210.00	\$230.00	\$105.00	\$175.00	\$180.00	\$122.00	\$150	-17%	\$210.00
		SPECIFIC GRAVITY										
206	T85	Coarse Aggregate	\$65.00	\$180.00	\$135.00	\$85.00	\$115.00	\$116.00	\$80.00	\$98	-16%	\$280.00
207	T84	Fine Aggregate	\$160.00	\$240.00	\$165.00	\$145.00	\$175.00	\$177.00	\$207.00	\$255	44%	\$280.00
208	T84	Bituminous Aggregate							\$92.00	\$113		
211	T96	Abrasion by LA Rattler	\$375.00	\$390.00	\$165.00	\$200.00	\$200.00	\$266.00	\$158.00	\$194	-27%	\$288.00
216		MAX. UNIT WT. (COMPACTION)										
		1 Mold							\$158.00	\$169		
		Wet Curve	\$180.00	\$240.00	\$220.00	\$225.00	\$220.00	\$217.00	\$233.00	\$287	33%	\$504.00
		Dry Curve	\$180.00	\$240.00	\$220.00	\$225.00	\$220.00	\$217.00	\$241.00	\$304	40%	\$504.00
		T180/D1557	\$150.00	\$300.00	\$250.00	\$245.00	\$220.00	\$233.00	\$274.00	\$338	45%	\$504.00
217	T176	Sand Equivalent							\$50.00	\$60		
		One Tube							\$98.00	\$111	-13%	\$350.00
		Two Tube w / statistics	\$100.00	\$150.00	\$115.00	\$150.00	\$125.00	\$128.00	\$98.00	\$111	-13%	\$350.00
226	T255	Moisture Content										
		Moisture Content	\$20.00	\$12.00	\$30.00	\$25.00	\$35.00	\$24.40	\$10.00	\$13	-47%	
		Moisture Content - Slurry Seal **							\$49.00	\$52		
227		CLEANNESS VALUE										
		#2 rock	\$190.00	\$240.00	\$145.00	\$165.00	\$180.00	\$184.00	\$197.00	\$242	32%	\$560.00
		#3 rock	\$190.00	\$240.00	\$145.00	\$165.00	\$180.00	\$184.00	\$95.00	\$117	-36%	\$560.00
		#3 / #4 rock combined	\$190.00	\$240.00	\$145.00	\$165.00	\$180.00	\$184.00	\$105.00	\$129	-30%	\$560.00
229	T210	DURABILITY FACTOR										
		Fine	\$160.00	\$240.00	\$149.00	\$150.00	\$205.00	\$180.80	\$98.00	\$120	-34%	\$420.00
		Coarse	\$250.00	\$240.00	\$149.00	\$150.00	\$205.00	\$198.80	\$122.00	\$150	-25%	\$420.00
301	T190	R-VALUE										
		Untreated	\$300.00	\$390.00	\$330.00	\$325.00	\$375.00	\$344.00	\$423.00	\$523	52%	\$770.00
		Treated							\$735.00	\$679		
304	T247	S-VALUE (PLANT MIXED)										
		Max Density	\$80.00	\$90.00	\$85.00	\$55.00	\$100.00	\$82.00	\$108.00	\$83	1%	\$290.00
		S-Value	\$250.00	\$240.00	\$297.00	\$350.00	\$225.00	\$272.40	\$140.00	\$318	17%	\$290.00
308	T275	DENSITY - AC CORE	\$80.00	\$90.00	\$85.00	\$55.00	\$100.00	\$82.00	\$108.00	\$211	157%	
366	T246	S-VALUE (LAB MIXED)							\$324.00	\$479		
417		SULFATE CONTENT										
		Modified 10:1	\$60.00	\$90.00	\$50.00	\$60.00	\$175.00	\$87.00	\$356.00	\$440	406%	\$216.00
521	T22 T231	COMPRESSION STRENGTH PCC	\$30.00	\$25.00	\$35.00	\$32.00	\$35.00	\$31.40	\$50.00	\$60	91%	\$70.00
643	T288 T289	RESISTIVITY OF SOILS	\$125.00	\$180.00	\$149.00	\$160.00	\$175.00	\$157.80	\$139.00	\$171	8%	\$648.00
	T236	DIRECT SHEAR										
		Undisturbed	\$250.00	\$300.00	\$265.00	\$390.00	\$300.00	\$301.00	\$394.00	\$486	61%	\$504.00
		Remolded							\$483.00	\$597		
382	T308	AC IGNITION OVEN										
		Binder Content or Emulsion Content Only	\$300.00	\$180.00	\$264.00	\$160.00	\$150.00	\$210.80	\$135.00	\$108	-49%	\$290.00
		Binder Content and Grading							\$455.00	\$215		
	T267	% ORGANIC **	\$140.00	\$90.00		\$125.00	\$100.00	\$113.75	\$64.00	\$79	-31%	\$504.00
	ASTM D3910	WET TRACK ABRASION TEST		\$180.00	\$17.00	\$350.00	\$150.00	\$174.25	\$85.00	\$108	-38%	\$145.00
		Concrete Panel Cores **	\$90.00	\$25.00	\$72.00	\$85.00	\$120.00	\$78.40	\$168.00	\$189	141%	

	Test Description	Gregg Drilling & Testing Inc.	2R Drilling Inc.	BC Environmental Corp.	ABC Liovin Drilling Inc.	Pen Hall Company	Skaggs Concrete Cutting Inc.	Average of the Six Rate	Orange County Materials Lab Existing Rate	Orange County Materials Lab Proposed Rate	Variance From Average
	Central Mining Equipment (CME) Truck Mounted Drill Rig CME 55 Truck Mounted Drill Rig CME 45C Truck Mounted Drill Rig CME 850	\$ 340.00	\$ 390.00	\$ 312.50	\$ 575.00			\$ 404.38	\$364.00	\$298	-26.31%
	Central Mining Equipment (CME) Truck Mounted Drill Rig CME 55 Truck Mounted Drill Rig CME 45C Truck Mounted Drill Rig CME 850	\$ 415.00	\$ 460.00	\$ 357.50	\$ 620.00			\$ 463.13	\$470.00	\$298	-35.65%
	Central Mining Equipment (CME) Truck Mounted Drill Rig CME 45C		\$ 200.00	\$ 190.00		\$ 160.00	\$ 110.00	\$ 165.00	\$347.00	\$298	80.61%