



U.S. Department
of Transportation
**Federal Highway
Administration**

Alaska Division

June 26, 2018

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In Reply Refer To:
ADMS 34-3

Ms. Sunny Haight
Acting Director, Administrative Services Division
Alaska Department of Transportation and Public Facilities
Juneau, Alaska 99811-2500

Dear Ms. Haight:

As requested in your December 12, 2018 letters, we have reviewed and approved the ten Small Cost Allocation Plans for use by the Alaska Department of Transportation and Public Facilities (DOT&PF) during State Fiscal Year 2019.

The Small Cost Allocation Plans rates are approved as follows:

Cost Allocation Plan	Rate
Northern Region Materials Lab Testing	\$85.80/test hour
Northern Region Materials Construction Test Equipment	As proposed (Enclosure 1)
Northern Region Materials Geo Professional Services	\$0.50/direct labor dollar
Central Region Materials Lab Testing	\$12/test hour
Central Region Construction Test Equipment	As proposed (Enclosure 2)
Central Region Materials Professional Services	\$0.07/direct labor dollar
Southcoast Region Materials Lab Testing	\$185/test hour
Southcoast Region Professional Services	\$0.35/direct labor dollar
Southcoast Region Construction Test Equipment	As proposed (Enclosure 3)
Statewide Survey Instrument Laboratory	As proposed (Enclosure 4)

We appreciate receiving copies of the memoranda documenting the DOT&PF internal review for each of the submitted plans. The internal reviews for these proposed plans found the rates to be in compliance with applicable Federal and Departmental guidelines. We also appreciate the evaluation of the "Calculation of the Over/Under Collection Amount" worksheets in each cost allocation plan, and the commitment by your staff to make changes in next year's plans to clarify that these are revenue collection calculations and to increase narrative and format consistency across similar plans.

If you have any questions, please contact Kathleen Graber, Assistant Division Administrator, at 907-586-7421.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sandra A. Garcia-Aline', with a long horizontal flourish extending to the left.

Sandra A. Garcia-Aline
Division Administrator

Enclosures: 1. Northern Region Construction Test Equipment Plan Schedule of Rates
 2. Central Region Construction Test Equipment Plan Schedule of Rates
 3. Southcoast Region Construction Test Equipment Plan Schedule of Rates
 4. Surveying Instrument Laboratory Cost Allocation Plan Schedule of Rates

cc: Lee Ellenburg, Internal Review Chief, DOT&PF
 Susan Endicott, Accountant III, Administrative Services Division, DOT&PF
 Roger Baines, Finance Officer, Administrative Services Division, DOT&PF

NORTHERN REGION MATERIALS LABORATORY TESTING COST ALLOCATION PLAN

PROPOSED RATE SCHEDULE FY2019

EXHIBIT A-1

LAB HOURLY TEST RATE: \$ 85.80

TEST NAME	TESTING HOURS	CHARGE PER TEST	ROUNDED CHARGE
ATB IGN. OVEN CALIB. BATCH (SET OF 4)	1.50	\$ 128.70	\$ 129
ATB MIX DESIGN	15.00	\$ 1,287.03	\$ 1,287
BINDER, SOFTENING POINT	1.50	\$ 128.70	\$ 129
BINDER, EMULSION COMPLETE	6.00	\$ 514.81	\$ 515
BINDER, PG VERIFICATION	4.50	\$ 386.11	\$ 386
BINDER, TOUGHNESS & TENACITY	2.50	\$ 214.51	\$ 215
CONCRETE CYLINDER BREAK	0.50	\$ 42.90	\$ 43
CONCRETE MIX VERIFICATION	10.50	\$ 900.92	\$ 901
FLAT & ELONGATED	1.25	\$ 107.25	\$ 107
FRACTURE	1.25	\$ 107.25	\$ 107
GRADATION, COARSE (+ #4)	1.00	\$ 85.80	\$ 86
GRADATION, FINE (- #4)	1.00	\$ 85.80	\$ 86
GRADATION, TOTAL WASH	2.25	\$ 193.05	\$ 193
HMA BINDER CONTENT, IGN. OVEN	1.00	\$ 85.80	\$ 86
HMA CHECK MARSHALL	4.00	\$ 343.21	\$ 343
HMA IGN. OVEN BURN OFF CALIBRATION	3.50	\$ 300.31	\$ 300
HMA IGN. OVEN CALIB. BATCH (SET OF 4)	3.00	\$ 257.41	\$ 257
HMA MARSHALL MIX DESIGN	30.00	\$ 2,574.07	\$ 2,574
HMA MIX VERIFICATION	22.00	\$ 1,887.65	\$ 1,888
HMA MOISTURE	0.50	\$ 42.90	\$ 43
HMA SpG, BULK	0.50	\$ 42.90	\$ 43
HMA SpG, MAX (MSG)	1.00	\$ 85.80	\$ 86
HYDROMETER	1.50	\$ 128.70	\$ 129
LIQUID LIMIT/PLASTIC INDEX, NP	0.25	\$ 21.45	\$ 21
LIQUID LIMIT/PLASTIC INDEX, W/VALUE	1.25	\$ 107.25	\$ 107
MOISTURE CONTENT	0.25	\$ 21.45	\$ 21
ORGANIC BY IGNITION	0.25	\$ 21.45	\$ 21
ORGANIC PPM	0.75	\$ 64.35	\$ 64
PH OF SOIL	1.00	\$ 85.80	\$ 86
QUALITY, DEGRADATION	2.00	\$ 171.60	\$ 172
QUALITY, LA ABRASION	1.50	\$ 128.70	\$ 129
QUALITY, NORDIC ABRASION	4.00	\$ 343.21	\$ 343
QUALITY, SODIUM SOUNDNESS COARSE	2.50	\$ 214.51	\$ 215
QUALITY, SODIUM SOUNDNESS FINE	2.50	\$ 214.51	\$ 215
SAND EQUIVALENT	1.25	\$ 107.25	\$ 107
SPECIAL TESTS (billed on an hourly basis)	VARIES	\$ -	\$ -
SpG COARSE	1.00	\$ 85.80	\$ 86
SpG COARSE, APPARENT ONLY	0.50	\$ 42.90	\$ 43
SpG FINE, T-100	1.00	\$ 85.80	\$ 86
SpG FINE, T-84	1.50	\$ 128.70	\$ 129
SOLUBILITY & DURABILITY	4.00	\$ 343.21	\$ 343
STANDARD DENSITY	4.00	\$ 343.21	\$ 343
UNCOMPACTED VOID CONTENT	1.50	\$ 128.70	\$ 129

Enclosure 1

NORTHERN REGION CONSTRUCTION TEST EQUIPMENT COST ALLOCATION PLAN

RENTAL RATE DEVELOPMENT FOR FY19

EXHIBIT A-2

TABLE A-2: TOTAL EXPENSES AND RENTAL RATE DEVELOPMENT FOR FY19							
EQ CL REF	CLASS DESCRIPTION	PRO RATED EXPENSE (PAGE A-1)	ESTIMATED DEPRECIATION FOR CLASS	TOTAL EXPENSE	ESTIMATED RENTAL MOS (Ex.H)	MONTHLY RENTAL RATE	EXPECTED REVENUE
AC	ASPHALT CONTENT GAUGE	5,421	1,926	7,347	2	\$ 3,674	\$ 7,347
AM	AIR METER-CONCRETE	208	-	208	73	\$ 3	\$ 208
CD	DRYING MACHINE	4,831	4,768	9,599	15	\$ 640	\$ 9,599
CT	COMPRESSION TESTER	3,293	1,084	4,377	5	\$ 875	\$ 4,377
DT	DUST TRAK	708	1,398	2,106	1	\$ 2,106	\$ 2,106
ES	ELECTRONIC SCALES	8,431	-	8,431	170	\$ 50	\$ 8,431
GP	GPS UNIT	16,299	32,174	48,473	80	\$ 606	\$ 48,473
GS	GILSON SHAKER	2,509	-	2,509	30	\$ 84	\$ 2,509
IO	IGNITION OVENS	10,364	1,607	11,971	15	\$ 798	\$ 11,971
MH	MECHANICAL HAMMER	703	-	703	2	\$ 351	\$ 703
ND	NUCLEAR DENSOMETER	19,270	5,162	24,432	112	\$ 218	\$ 24,432
OC	OVEN - CONVECTION	4,260	1,654	5,914	85	\$ 70	\$ 5,914
OG	OVEN - GAS	2,321	-	2,321	30	\$ 77	\$ 2,321
SA	SURFACE ANALYZER**	5,858	3,855	9,713	2	\$ 4,857	\$ 9,713
SS	SMALL SHAKER	2,694	-	2,694	35	\$ 77	\$ 2,694
TR	TRAILER	7,931	3,914	11,845	80	\$ 148	\$ 11,845
VP	VACUUM PUMP	218	-	218	15	\$ 15	\$ 218
WB	WATER BATH	672	-	672	15	\$ 45	\$ 672
TOTALS:		95,991	57,542	153,533			153,533

EXPECTED REVENUE:

153,533

VARIANCE DUE TO ROUNDING:

0

0.00% Of Revenue

**The surface analyzer is checked out on a per use basis. The estimated rental months is actually estimated uses for this classification.

Northern Region Geology unit
Comparison to prior year

17-AP-07

	<u>FY2018</u>	<u>FY2019</u>	<u>% Change</u>
Labor	250,000	250,000	0%
Travel	1,000	1,000	0%
Services	4,000	13,500	238%
Supplies	40,000	67,000	68%
Depreciation	2,750	-	-100%
(Over)/Under Calculation	100,564	(112,481)	-212%
Total Estimated Expenses	398,314	219,019	-45%
 Estimated Direct Project Salaries	 595,000	 436,000	 -27%
 Audited Rate	 \$ 0.67	 \$ 0.50	
 Percent Change		 -25%	

Central Region Materials Laboratory Testing
Comparison to prior year

17-AP-09

	<u>FY2018</u>	<u>FY2019</u>	<u>% Change</u>
Personnel Services	969,784	1,161,000	20%
Travel	1,900	8,400	342% out of state travel increased
Services	54,100	52,690	-3%
Supplies	30,800	30,700	0%
Depreciation	21,835	25,756	18%
(Over)/Under Calculation	(213,516)	(1,137,922)	433% 1.2million in revenue transferred
Total Estimated Expenses	864,903	140,624	-84%
 Estimated Number of Test Hours	 10,900	 12,105	 11%
 Audited Rate	 \$ 79	 \$ 12	
 Percent Change		 -85%	

LABORATORY TEST RATES FY 19

		Rate = \$ 12					
TEST NO.	DESCRIPTION	TEST TIME	TEST RATE	TEST NO.	DESCRIPTION	TEST TIME	TEST RATE
101	GRADATION	1.50	\$17	501	ASPHALT SPECIFIC GRAVITY	0.75	\$9
102	MECHANICAL ANALYSIS	2.25	\$26	502	ASPHALT SOLUBILITY	1.00	\$12
103	ATTERBURG LIMITS	1.25	\$15	503	VISCOSITY, SAYBOLT	1.00	\$12
104	GRADATION TOTAL WASH	2.00	\$23	505	ASPHALT FLOAT TEST	1.00	\$12
105	SPECIFIC GRAVITY OF SOIL	1.00	\$12	506	ASPHALT PENETRATION	1.00	\$12
106	MOISTURE CONTENT	0.50	\$6	507	ASPHALT FLASH POINT	1.25	\$15
107	UNIT WEIGHT	1.00	\$12	509	ROLLING THIN FILM OVEN	1.00	\$12
108	MOISTURE DENSITY RELATIONSHIP	4.50	\$52	510	PRESENCE OF ANTI-STRIP	0.75	\$9
109	SAND EQUIVALENT	1.25	\$15	511	ASPHALT SOFTENING POINT	1.75	\$20
110	TRIAXIAL COMPRESSION	4.00	\$46	513	CUTBACK DISTILLATION	2.25	\$26
111	CONSOLIDATION	3.25	\$38	514	CUTBACK TESTS, COMPLETE	6.00	\$70
112	DIRECT SHEAR	5.75	\$67	515	SIEVE TEST	1.00	\$12
113	UNCONFINED COMPRESSION	2.25	\$26	516	PARTICLE CHARGE TEST	1.00	\$12
114	PERMEABILITY	4.75	\$55	517	ph OF ASPHALT	1.00	\$12
115	CALIFORNIA BEARING RATIO	5.75	\$67	518	DEMULSIBILITY	1.75	\$20
116	ph OF SOIL	0.75	\$9	519	EMULSIFIED DISTILLATION	2.25	\$26
117	ORGANIC CONTENT OF SOIL	0.75	\$9	520	SETTLEMENT TEST	1.25	\$15
118	STANDARD DENSITY BY VIBE	4.00	\$46	521	EMULSIFIED TESTS, COMPLETE	7.00	\$81
119	AASHTO CLASSIFICATION	2.50	\$29	522	SUPERPAVE BINDER CERTIFICATION	8.00	\$93
120	FROST CLASSIFICATION (MA)	3.00	\$35	523	SUPERPAVE BINDER CLASSIFICATION	10.00	\$116
121	UNIFIED CLASSIFICATION	3.50	\$41	524	ROTATIONAL VISCOSITY	0.50	\$6
122	WET PREPARATION OF SAMPLE	4.00	\$46	525	DYNAMIC SHEAR	0.50	\$6
123	DRY PREPARATION OF SAMPLE	0.50	\$6	526	CREEP STIFFNESS	2.00	\$23
124	Consolidation of Peat	1.25	\$15	527	DIRECT TENSION	1.50	\$17
201	GRADATION, FINE AGGREGATE	1.25	\$15	528	AGING BY PAV	1.00	\$12
202	GRADATION, COARSE AGGREGATE	1.25	\$15	529	TOUGHNESS & TENACITY	2.00	\$23
203	UNIT WEIGHT	0.75	\$9	530	MULTIPLE STRESS CREEP RECOVERY	0.50	\$6
204	SPECIFIC GRAVITY, FINE	1.50	\$17	601	BITUMEN CONTENT BY CENTRIFUGE	3.25	\$38
205	SPECIFIC GRAVITY, COARSE	1.25	\$15	602	ASH CORRECTION	0.75	\$9
206	THIN - ELONGATED PARTICLES	1.50	\$17	603	BITUMEN CONTENT, VACUUM	2.50	\$29
207	FRACTURED PARTICLES	1.00	\$12	604	BITUMEN CONTENT, NUKE	1.00	\$12
208	ORGANIC IMPURITIES	0.75	\$9	605	MOISTURE BY Oven-Dry	0.50	\$6
210	LOS ANGELES ABRASION	1.75	\$20	606	EXTRACTED AGGREGATE GRADATION	1.00	\$12
211	LIGHTWEIGHT PARTICLES	1.50	\$17	607	CORE ANALYSIS	0.75	\$9
212	SULFATE SOUNDNESS	2.50	\$29	608	NUCLEAR GAUGE CALIBRATION	3.25	\$38
213	FRIABLE PARTICLES	1.25	\$15	609	ABSON RECOVERY	8.50	\$99
214	DEGRADATION	2.25	\$26	610	BITUMINOUS MIX DESIGN	30.00	\$349
215	STATIC IMMERSION	2.00	\$23	611	CHECK MARSHALL	3.75	\$44
216	NORDIC ABRASION	4.50	\$52	612	RETENTION VALUE	9.25	\$107
217	VOID CONTENT, FINE AGGREGATE	1.00	\$12	613	MSPG OF HMA MIX	2.00	\$23
218	Aggregate Blen	0.25	\$3	615	BITUMEN CONTENT, IGNITION	1.25	\$15
219	ACP/SMA COMPLETE QUALITY	14.25	\$166	616	MOISTURE SUSCEPTIBILITY	4.50	\$52
220	STICKS & ROOTS	0.50	\$6	617	RUT SUSCEPTIBILITY	4.50	\$52
221	Corrosion Resistance	7.50	\$87	618	SUPERPAVE MIX DESIGN	40.00	\$465
222	Calcium Chloride	2.00	\$23	619	IGNITION FURNACE CALIBRATION	4.00	\$46
223	Sodium Chloride	2.00	\$23			29.00	\$337
						1.50	\$17
						0.45	\$5
						4.25	\$49
302	CONCRETE MIX DESIGN	8.50	\$99			4.75	\$55
303	CONCRETE FLEX STRENGTH	1.00	\$12			5.25	\$61
						3.75	\$44
						0.75	\$9
						1.00	varies
						1.00	\$12
						1.50	\$17
						1.50	\$17
						1.00	\$23
301	CONCRETE COMP. STRENGTH	0.50	\$6	821	PRALL	1.00	\$12
302	CONCRETE MIX DESIGN	8.50	\$99	822	ITS of FABC	1.50	\$17
303	CONCRETE FLEX STRENGTH	1.00	\$12			1.50	\$17
304	CONCRETE TIME OF SET	3.75	\$44	701	EXPANSION JOINT FILLER	1.00	\$23
305	CONCRETE AIR ADMIXTURES	8.50	\$99	702	JOINT SEALERS	1.50	
306	CONCRETE ADMIXTURES	8.50	\$99	703	INSULBOARD	1.00	
307	CONCRETE CURING COMPOUNDS	3.25	\$38	704	GROUT	1.00	
308	GROUT COMPRESS STRENGTH	0.50	\$6	706	TENSILE STRENGTH, REBAR	1.00	
401	CEMENT TIME OF SET	1.00	\$12	800	SPECIAL TESTING	5.00	
402	CEMENT FINENESS MODULUS	0.50	\$6	801	QUALITY REPORT TRANSFER	1.00	
403	MORTAR COMPRESSIVE STRENGTH	1.50	\$17	802	STANDARD DENSITY TRANSFER	1	
404	AUTOClave EXPANSION	1.25	\$15	803	HMA MD TRANSFER / REPORT	1	
405	CEMENT AIR CONTENT	1.00	\$12	804	PCC MD TRANSFER / REPORT	2	
406	CEMENT TESTS, COMPLETE	5.25	\$61				

CONSTRUCTION TEST EQUIPMENT RENTAL RATES FOR FISCAL YEAR 2019		
Equipment Class	Monthly Rate	Daily Rate
Air Meter	\$ 65	\$ 2.18
Convection Oven	\$ 76	\$ 2.55
Despatch Ovens	\$ 218	\$ 7.26
E-Saximeter	\$ 502	\$ 16.72
Electric Scales	\$ 9	\$ 0.30
Gilson "Pizza" Ovens	\$ 347	\$ 11.57
Gilson Shakers	\$ 289	\$ 9.63
Ignition Furnace/Oven	\$ 1,372	\$ 45.72
Mettler Scales	\$ 232	\$ 7.72
Nuclear Content Gage	\$ 9,540	\$ 318.00
Nuclear Densometer	\$ 610	\$ 20.32
Rice Tester	\$ 1,666	\$ 55.53
12" Rotap Shakers	\$ 263	\$ 8.76
Sample Splitter	\$ 63	\$ 2.10
Saw Brick 14in Bench	\$ 109	\$ 3.65
Saw HD Masonary	\$ 167	\$ 5.56
Shaker Shack (hut)	\$ 573	\$ 19.11
Digital Conc. Compression	\$ 560	\$ 18.68
Thermal Imager Fluke TI32	\$ 3,603	\$ 120.09
Compact Infrared Camera	\$ 446	\$ 14.88
Thermal Imager Focus Free TI125	\$ 615	\$ 20.49
Marshall Compactor	\$ 3,662	\$ 122.07
Asphalt Lab Trailer	\$ 868	\$ 28.95

Central Region Materials Laboratory Professional Services 17-AP-11
Comparison to prior year

	<u>FY2018</u>	<u>FY2019</u>	<u>% Change</u>	
Labor	70,000	78,500	12%	
Travel	4,100	11,300	176%	in/out of state airfare estimated higher
Services	115,000	128,220	11%	
Supplies	23,250	23,300	0%	
Depreciation	14,251	7,549	-47%	3 items fully depreciated
(Over)/Under Calculation	174,333	(187,746)	-208%	Revenue transfer of \$316,121
Total Estimated Expenses	400,934	61,123	-85%	
 Estimated Direct Project Salaries	 965,424	 829,066	 -14%	
 Audited Rate	 \$ 0.42	 \$ 0.07		
 Percent Change		 -82%		

Southcoast Region Materials Laboratory Professional Services 17-AP-14
Comparison to prior year

	<u>FY2018</u>	<u>FY2019</u>	<u>% Change</u>	
Labor	100,697	100,837	0%	
Travel	3,000	4,000	33%	no break down provided
Services	18,000	16,000	-11%	
Supplies	8,000	14,500	81%	no break down provided
Depreciation	1,478	1,478	0%	
(Over)/Under Calculation	(29,553)	4,253	-114%	\$32,330 less revenue tranferred
Total Estimated Expenses	101,622	141,068	39%	
Estimated Direct Project Salaries	422,424	403,938	-4%	
Audited Rate	\$ 0.24	\$ 0.35		
Percent Change		45%		

Enclosure 3

SOUTHCOAST REGION CONSTRUCTION TEST EQUIPMENT COST ALLOCATION PLAN

RENTAL RATES FOR FY19

EXHIBIT A1

PROPOSED RENTAL RATES FOR FY18		
	EQUIPMENT CLASS DESCRIPTION	MONTHLY RENTAL RATE FY19
	BENCH OVEN - LARGE (DESPATCH/CONV)	\$725
	BURN OVEN (IGNITION FURNACE)	\$1,381
	CONCRETE COMPRESSION TESTER	\$3,446
	NUCLEAR DENSOMETER	\$1,943
	SHAKER - LARGE >\$5,000	\$480
	TRAILER - FIELD LAB	\$4,432
	AIR METER (concrete air pressure meter)	\$203
	BENCH OVEN - SMALL	\$348
	BENCH SCALE	\$1,032
	CONCRETE COMPRESSION TESTER	\$369
	ELECTRIC FIELD SCALE	\$61
	RICE TESTER	\$342
	SAMPLE SPLITTER - LARGE	\$338
	SAMPLE SPLITTER - SMALL	\$121
	SAW, MASONRY - HEAVY DUTY	\$1,578
	SHAKER - SMALL	\$360
	THERMAL IMAGER	\$4,197

Attachment A

SURVEY INSTRUMENT LAB EQUIPMENT RENTAL RATES FOR FISCAL YEAR 2019		
Equipment Class	Monthly Rate	Daily Rate
PAVEMENT SAW HILTI	\$ 8	\$ 0.28
LASER LEVEL	\$ 11	\$ 0.35
ELECTRONIC DIGITAL LEVEL	\$ 57	\$ 1.91
AUTOMATIC ENGINEERS LEVEL	\$ 27	\$ 0.90
TRAVERSE KITS - SINGLE	\$ 18	\$ 0.59
ANGLE GRINDER DEWALT	\$ 3	\$ 0.09
FIELD DATA COMPUTERS	\$ 14	\$ 0.47
GLOBAL POSITIONING SYSTEM	\$ 384	\$ 12.80
FIELD RADIOS	\$ 5	\$ 0.15
TOTAL STATION TS15	\$ 192	\$ 6.41
ECHOSOUNDER	\$ 165	\$ 5.50
GLOBAL POSITIONING REFERENCE STATION	\$ 320	\$ 10.67
LASER DISTANCE METER, BT	\$ 3	\$ 0.11
LASER DISTANCE METER w/CAMERA, BT	\$ 5	\$ 0.16
MAGNETIC LOCATOR W/CASE	\$ 60	\$ 2.02
COMBIHAMMER HILTI	\$ 17	\$ 0.58
LEICA MS50 MULTI STATION	\$ 1,606	\$ 53.55
CONTROLLER CS20	\$ 286	\$ 9.52
IPAD/DRONE CONTROL	\$ 26	\$ 0.86
INFINITY OPERATING SYSTEM/SEAT	\$ 80	\$ 2.68
DRONE	\$ 192	\$ 6.41
GPS/CARLSON	\$ 1,858	\$ 61.93