

Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2019

(With Independent Auditors' Report Thereon)

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Independent Auditors' Report

The Division of Retirement and Benefits and Members of the Alaska Retirement Management Board State of Alaska Teachers' Retirement System:

We have audited the accompanying schedule of employer and nonemployer allocations of the State of Alaska Teachers' Retirement System Defined Benefit Pension Plan (the Plan) as of and for the year ended June 30, 2019, and the related notes. We have also audited the total for all entities of the columns titled net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense (benefit) (specified column totals) included in the accompanying schedule of pension amounts by employer and nonemployer of the Plan as of and for the year ended June 30, 2019, and the related notes.

Management's Responsibility for the Schedules

Management is responsible for the preparation and fair presentation of these schedules in accordance with U.S. generally accepted accounting principles; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the schedules that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on the schedule of employer and nonemployer allocations and the specified column totals included in the schedule of pension amounts by employer and nonemployer based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer and nonemployer allocations and specified column totals included in the schedule of pension amounts by employer are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of employer and nonemployer allocations and specified column totals included in the schedule of pension amounts by employer and nonemployer. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the schedule of employer and nonemployer allocations and specified column totals included in the schedule of pension amounts by employer and nonemployer. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the schedule of employer and nonemployer allocations and specified column totals included in the schedule of pension amounts by employer and nonemployer, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the schedule of employer and nonemployer allocations and specified column totals included in the schedule of pension amounts by employer and nonemployer in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer and nonemployer allocations and specified column totals included in the schedule of pension amounts by employed and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer and nonemployer.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.



Opinions

In our opinion, the schedules referred to above present fairly, in all material respects, the employer and nonemployer allocations and net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense (benefit) for the total of all entities for the Plan as of and for the year ended June 30, 2019, in accordance with U.S. generally accepted accounting principles.

Other Matter

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the State of Alaska Teachers' Retirement System, which includes the Defined Benefit Pension Plan, as of and for the year ended June 30, 2019, and our report thereon, dated October 23, 2019, expressed an unmodified opinion on those financial statements.

Other Information

The supplemental schedule of employer allocations of special funding amounts, supplemental schedule of special funding amounts by employer, and supplemental schedule of employer and nonemployer contributions have not been subject to the auditing procedures applied in the audit of the schedule of employer and nonemployer and nonemployer allocations and schedule of pension amounts by employer and nonemployer and accordingly, we do not express an opinion or provide any assurance on them.

Restriction on Use

Our report is intended solely for the information and use of the State of Alaska Teachers' Retirement System management, the members of the Alaska Retirement Management Board, State of Alaska Teachers' Retirement System Defined Benefit Pension Plan employers and nonemployers, and their auditors, and is not intended to be and should not be used by anyone other than these specified parties.



Anchorage, Alaska February 27, 2020

Schedule of Employer and Nonemployer Allocations

As of and for the year ended June 30, 2019

Employer/nonemployer	Employer/ nonemployer number	-	Present value of projected future contributions	Allocation percentage
Employers:				
Anchorage School District	701	\$	236,382,000	13.79279 %
Cordova City School District	704	Ŧ	2,143,000	0.12504
Craig City School District	705		1,878,000	0.10958
Fairbanks North Star Borough School District	706		68,618,000	4.00383
Haines Borough School District	707		1,302,000	0.07597
Hoonah City School District	708		555,000	0.03238
Hydaburg City School District	709		449,000	0.02620
Juneau Borough School District	710		25,991,000	1.51656
Kake City School District	712		855,000	0.04989
Ketchikan Gateway Borough School District	714		12,831,000	0.74868
Klawock City School District	717		1,140,000	0.06652
Kodiak Island Borough School District	718		12,238,000	0.71408
Nenana City School District	719		2,105,000	0.12283
Nome City School District	720		3,166,000	0.18473
Matanuska-Susitna Borough School District	722		88,123,000	5.14194
Pelican City School District	723		62,000	0.00362
Petersburg City School District	724		2,977,000	0.17371
Sitka Borough School District	727		8,733,000	0.50957
Skagway City School District	728		896,000	0.05228
Unalaska City School District	729		2,265,000	0.13216
Valdez City School District	730		3,592,000	0.20959
Wrangell Public School District	731		1,519,000	0.08863
Yakutat School District	732		398,000	0.02322
University of Alaska	733		27,471,000	1.60292
Galena City School District	735		4,898,000	0.28580
North Slope Borough School District	736		15,882,000	0.92671
State of Alaska	737		11,408,000	0.66565
Bristol Bay Borough School District	742		742,000	0.04330
Southeast Regional Resource Center	743		365,000	0.02130
Dillingham City School District	744		3,027,000	0.17662
Kenai Peninsula Borough School District	746		45,953,000	2.68134
Saint Mary's School District	748		1,130,000	0.06594
Northwest Arctic Borough School District	751		14,372,000	0.83860
Bering Strait School District	752		13,657,000	0.79688
Lower Yukon School District	753		11,494,000	0.67067
Lower Kuskokwim School District	754		24,548,000	1.43236
Kuspuk School District	755		2,524,000	0.14727

Schedule of Employer and Nonemployer Allocations

As of and for the year ended June 30, 2019

Employer/nonemployer	Employer/ nonemployer number	_	Present value of projected future contributions	Allocation percentage
Southwest Region School District	756	\$	4,964,000	0.28965 %
Lake And Peninsula Borough School District	757		3,482,000	0.20317
Aleutian Region School District	758		316,000	0.01844
Pribilof School District	759		474,000	0.02766
Iditarod Area School District	761		1,436,000	0.08379
Yukon / Koyukuk School District	762		4,511,000	0.26321
Yukon Flats School District	763		2,129,000	0.12423
Denali Borough School District	764		2,276,000	0.13280
Delta/Greely School District	765		3,715,000	0.21677
Alaska Gateway School District	766		2,495,000	0.14558
Copper River School District	767		1,710,000	0.09978
Chatham School District	768		1,133,000	0.06611
Southeast Island School District	769		1,606,000	0.09371
Annette Island School District	770		2,202,000	0.12849
Chugach School District	771		1,361,000	0.07941
Tanana School District	775		384,000	0.02241
Kashunamiut School District	777		1,517,000	0.08852
Yupiit School District	778		2,753,000	0.16064
Special Education Service Agency	779		851,000	0.04966
Aleutians East Borough School District	780		2,014,000	0.11752
Total present value of projected future employer contributions			697,018,000	40.67069
Total nonemployer:				
State of Alaska	999		1,016,791,000	59.32931
Total for all entities		\$	1,713,809,000	100.00000 %

See accompanying notes to schedule of employer and nonemployer allocations and schedule of pension amounts by employer and nonemployer.

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Schedule of Pension Amounts by Employer and Nonemployer

As of and for the year ended June 30, 2019

Deferred outflows of resources

Employer/nonemployer	Employer/ nonemployer number	N	let pension liability	Net difference between projected and actual investment earnings on pension plan investments	Change in proportion and difference between employer contributions and proportionate share of contributions	Total deferred outflows of resources
Employer:						
Anchorage School District	701	\$ 2	257,724,129	6,619,682	_	6,619,682
Cordova City School District	704		2,336,484	60,013	24,662	84,675
Craig City School District	705		2,047,558	52,592	-	52,592
Fairbanks North Star Borough School District	706 707		74,813,286	1,921,590	_	1,921,590
Haines Borough School District Hoonah City School District	707		1,419,553 605,109	36,461 15,542	_	36,461 15,542
Hydaburg City School District	709		489,539	12,574	_	12,574
Juneau Borough School District	710		28,337,639	727,856	_	727,856
Kake City School District	712		932,195	23,944	53,026	76,970
Ketchikan Gateway Borough School District	714		13,989,467	359,322	-	359,322
Klawock City School District Kodiak Island Borough School District	717 718		1,242,927 13,342,927	31,925 342,715	_	31,925 342,715
Nenana City School District	719		2,295,053	58,949	9,019	67,968
Nome City School District	720		3,451,847	88,661	· _	88,661
Matanuska-Susitna Borough School District	722		96,079,327	2,467,812	-	2,467,812
Pelican City School District	723		67,598	1,736	-	1,736
Petersburg City School District Sitka Borough School District	724 727		3,245,783 9,521,473	83,368 244,560	171.698	83,368 416,258
Skagway City School District	728		976,897	25,092	16,476	41,568
Unalaska City School District	729		2,469,499	63,429	_	63,429
Valdez City School District	730		3,916,309	100,591	_	100,591
Wrangell Public School District	731		1,656,145	42,538	-	42,538
Yakutat School District University of Alaska	732 733		433,934	11,146	_	11,146 769,303
Galena City School District	735		29,951,263 5,340,224	769,303 137,164	_	137,164
North Slope Borough School District	736		17,315,932	444,762	776,323	1,221,085
State of Alaska	737		12,437,991	319,471	· _	319,471
Bristol Bay Borough School District	742		808,993	20,779	48,379	69,158
Southeast Regional Resource Center	743		397,955	10,222	-	10,222
Dillingham City School District Kenai Peninsula Borough School District	744 746		3,300,298 50,101,940	84,769 1,286,876	_	84,769 1,286,876
Saint Mary's School District	748		1,232,024	31,645	_	31,645
Northwest Arctic Borough School District	751		15,669,599	402,476	240,134	642,610
Bering Strait School District	752		14,890,044	382,453	-	382,453
Lower Yukon School District	753		12,531,754	321,880	-	321,880
Lower Kuskokwim School District Kuspuk School District	754 755		26,764,356 2,751,883	687,446 70,683	_	687,446 70,683
Southwest Region School District	756		5,412,183	139,013	_	139,013
Lake And Peninsula Borough School District	757		3,796,378	97,511	_	97,511
Aleutian Region School District	758		344,531	8,849	-	8,849
Pribilof School District	759		516,796	13,274		13,274
Iditarod Area School District Yukon / Koyukuk School District	761 762		1,565,652 4,918,283	40,214 126,327	7,336 96,798	47,550 223,125
Yukon Flats School District	763		2,321,220	59,621	35,176	94,797
Denali Borough School District	764		2,481,492	63,737	22,792	86,529
Delta/Greely School District	765		4,050,415	104,035	-	104,035
Alaska Gateway School District	766		2,720,265	69,870		69,870
Copper River School District Chatham School District	767 768		1,864,390 1,235,295	47,887 31,729	39,178	87,065 31,729
Southeast Island School District	769		1,751,000	44,975	_	44,975
Annette Island School District	770		2,400,811	61,665	84,490	146,155
Chugach School District	771		1,483,880	38,114	26,515	64,629
Tanana School District	775		418,670	10,754	42,618	53,372
Kashunamiut School District Yupiit School District	777		1,653,965	42,482	—	42,482
Special Education Service Agency	778 779		3,001,559 927,834	77,095 23,832	7,918	77,095 31,750
Aleutians East Borough School District	780		2,195,837	56,400		56,400
Total attributable to employer contributions		7	759,949,390	19,519,411	1,702,538	21,221,949
Nonemployer:			00 500 010	00 /= : 00/	10.000 701	00.047.775
State of Alaska	999	-	108,593,610	28,474,389	10,836,781	39,311,170
Total for all entities		\$ 1,8	368,543,000	47,993,800	12,539,319	60,533,119

See accompanying notes to schedule of employer and nonemployer allocations and schedule of pension amounts by employer and nonemployer.

	Deferred inflov	vs of resources			Pension expense	
Difference		Change in proportion and difference between employer contributions		Proportionate	Net amortization of deferred amounts from change in proportion and difference between employer contributions	
between expected and actual experience	Change in assumptions	and proportionate share of contributions	Total deferred inflows of resources	share of allocable plan pension expense	and proportionate share of contributions	Total pension expense (benefit)
6,988,804	1.823.906	4,132,213	12,944,923	19,803,485	(190,355)	19,613,130
63,359	16,535	4,132,213	79.894	179,535	247,709	427,244
55,524	14,491	168,415	238,430	157,334	(116,035)	41,299
2,028,741	529,451	190,678	2,748,870	5,748,642	1,592,131	7,340,773
38,495	10,046	121,169	169,710	109,078	(156,125)	(47,047
16,409	4,282	9,749	30,440	46,496	(174,051)	(127,555
13,275	3,464	68,817	85,556	37,616	(91,121)	(53,505
768,443	200,545	75,952	1,044,940	2,177,460	292,900	2,470,360
25,279	6,597		31,876	71,630	(19,261)	52,369
379,358	99,003	279,109	757,470	1,074,949	16,957	1,091,906
33,705	8,796	19,979	62,480	95,506	37,877	133,383
361,825	94,428	784,045	1,240,298	1,025,269	(481,987)	543,282
62,236	16,242	_	78,478	176,352	101,174	277,526
93,605	24,429	273,514	391,548	265,239	(469,756)	(204,517
2,605,420	679,951	1,503,931	4,789,302	7,382,721	308,517	7,691,238
1,833	478	1,488	3,799	5,194	(1,255)	3,939
88,017	22,970	13,309	124,296	249,406	39,752	289,158
258,197	67,383	-	325,580	731,629	474,697	1,206,326
26,491	6,913	—	33,404	75,065	34,565	109,630
66,966	17,477	73,927	158,370	189,756	(91,676)	98,080
106,200	27,716	491,481	625,397	300,929	(513,924)	(212,995
44,910	11,720	45,603	102,233	127,258	(90,486)	36,772
11,767	3,071	29,908	44,746	33,343	(51,842)	(18,499
812,200	211,964	815,790	1,839,954	2,301,451	(1,073,424)	1,228,027
144,813	37,793	224,690	407,296	410,342	(88,048)	322,294
469,563 337,289	122,544 88,027	22,995	592,107 448,311	1,330,554 955,730	2,008,283 (59,305)	3,338,837 896,425
21,938	5,725	22,995	27,663	62,163	97,003	159,166
10,791	2,816	108,598	122,205	30,579	(191,983)	(161,404
89,495	23,356	12,896	125,747	253,594	(89,834)	163,760
1,358,634	354,570	288,370	2,001,574	3,849,826	917,442	4,767,268
33,409	8,719	42,509	84,637	94,669	33,720	128,389
424,919	110,893		535,812	1,204,050	865,806	2,069,856
403,779	105,376	988,776	1,497,931	1,144,149	(634,274)	509,875
339,828	88,687	466,339	894,854	962,938	(50,952)	911,986
725,779	189,411	713,420	1,628,610	2,056,569	(256,629)	1,799,940
74,624	19,475	18,390	112,489	211,454	(83,277)	128,177
146,764	38,302	61,218	246,284	415,871	423,068	838,939
102,948	26,867	101,138	230,953	291,713	95,260	386,973
9,343	2,438	4,004	15,785	26,474	5,654	32,128
14,014	3,657	38,048	55,719	39,711	(1,900)	37,811
42,456	11,080	-	53,536	120,304	79,811	200,115
133,371	34,807	_	168,178	377,920	349,310	727,23
62,945	16,427	—	79,372	178,362	172,543	350,90
67,292	17,561		84,853	190,678	129,345	320,023
109,837	28,665	66,173	204,675	311,233	3,026	314,25
73,766	19,251	25,738	118,755	209,025	90,935	299,960
50,557	13,194	19,637	63,751	143,259	11,918	155,17
33,498	8,742		61,877 76,602	94,920 134 547	(60,926)	33,99
47,483 65,104	12,392 16,990	16,727	82,094	134,547 184,478	57,577 141,473	192,124 325,95
40,239	10,501	_	82,094 50,740	114,021	55,355	325,95
40,239	2,963		14,316	32,171	13,009	45,180
44,851	11,705	85,057	141,613	127,090	(153,803)	(26,713
81,394	21,242	83,772	186,408	230,639	224,242	454,88
25,160	6,566		31,726	71,295	35,232	106,52
59,545	15,540	51,747	126,832	168,728	(25,332)	143,39
20,607,840	5,378,140	12,539,319	38,525,299	58,394,399	3,738,730	62,133,129
_		_	_	_	_	
30.062.160	7 845 495		37 007 645	85 194 167	(3 720 720)	81 445 42
30,062,160 50,670,000	7,845,485		37,907,645	85,184,167 143,578,566	(3,738,730)	81,445,437

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2019

(1) Plan Description

The State of Alaska Teachers' Retirement System (the System) Defined Benefit Pension Plan (the Plan) is a cost-sharing multiple-employer defined benefit pension plan that provides pension benefits for teachers and other eligible members.

The Plan is established under Alaska Statute 14.25, which defines the benefit and contribution provisions and may be amended only by the State of Alaska (State) legislature. The 24th Alaska State Legislature enacted into law Senate Bill 141, which closed the Plan to new members effective July 1, 2006.

There are two tiers within the Plan: 1) Employees hired between July 1, 1955 and June 30, 1990, and 2) Employees hired between July 1, 1990 and June 30, 2006. The Plan is closed to all new members effective July 1, 2006.

Vested members hired prior to July 1, 1990 are entitled to pension benefits beginning at normal retirement age, 55, or early retirement age, 50. For members hired after June 30, 1990, the normal and early retirement ages are 60 and 55, respectively. Members may also retire at any age and receive a normal benefit when they accumulate the required credited service.

The normal annual pension benefit is based on years of service and average base salary. The average base salary is based upon the members' three highest contract years' salaries.

The benefit related to all years of credited service prior to July 1, 1990 and for years of service through a total of 20 years is equal to 2% of the employee's average base salary. The benefit for each year over 20 years of service subsequent to June 30, 1990 is equal to 2.5% of the employee's base salary.

Minimum benefits for members eligible for retirement are \$25 per month for each year of credited service.

Married members must receive their benefits in the form of a joint and survivor annuity unless their spouse consents to another form of benefit or benefits are payable under the 1% supplemental contributions provision.

The Plan has two types of postretirement pension adjustments (PRPA). The automatic PRPA is issued annually to all eligible benefit recipients when the cost of living increases in the previous calendar year. The automatic PRPA increase is paid beginning July 1 of each year. The discretionary PRPA may be granted to eligible recipients by the Plan's administrator if the cost of living in the previous calendar year rises and the financial condition of the Plan's permits. If both an automatic and discretionary PRPA are granted, and a retiree is eligible for both adjustments, the one that provides the retiree the greater increase will be paid.

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2019

(2) Basis of Presentation

The schedule of employer and nonemployer allocations and the schedule of pension amounts by employer and nonemployer (collectively, the Schedules) present amounts that are considered elements of the financial statements of the Plan, its participating employers, or the State as a nonemployer entity. Accordingly, they do not purport to be a complete presentation of the financial position or changes in financial position of the Plan, its participating employers, or the State. The amounts presented in the Schedules are prepared in accordance with U.S. generally accepted accounting principles. Such preparation requires management of the Plan to make a number of estimates and assumptions relating to the reported amounts. Due to the inherent nature of these estimates, actual results could differ from those estimates.

(3) Allocation Methodology

GASB Statement No. 68, Accounting and Financial Reporting for Pensions, requires participating employers in the Plan to recognize their proportionate share of the collective net pension liability, collective deferred outflows of resources, collective deferred inflows of resources, and collective pension expense. The employer and nonemployer allocation percentages presented in the schedule of employer and nonemployer allocation percentages presented in the schedule of pension amounts by employer and nonemployer are based on the ratio of the present value of projected future contributions for each employer to the total present value of projected future contributions for the fiscal years 2020 to 2039. Employer and nonemployer allocation percentages have been rounded for presentation purposes; therefore, amounts presented in the schedule of pension amounts by employer and nonemployer allocation percentages.

(4) Contributions

Employer contributions are actuarially determined and adopted by the Alaska Retirement Management Board (the Board). Employer contributions were 8.41% of annual payroll for the fiscal year 2019.

Alaska Statute 14.25.085 requires the State, as a nonemployer contributing entity, to contribute each July 1, or as soon after July 1 for the ensuing fiscal year, an amount that when combined with the total employer contributions is sufficient to pay the Plan's past service liability at the actuarially determined contribution rate adopted by the Board for that fiscal year.

(5) Collective Net Pension Liability

(a) Components of Collective Net Pension Liability

The components of the collective net pension liability of the Plan as of June 30, 2019, is as follows:

Total pension liability	\$	7,380,472,000
Plan fiduciary net position	-	(5,511,929,000)
Net pension liability	\$_	1,868,543,000

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2019

The total pension liability for the June 30, 2019 measurement date was determined by an actuarial valuation as of June 30, 2018, which was rolled forward to June 30, 2019. This actuarial valuation used the following actuarial assumptions as of the June 30, 2019 measurement date:

Inflation	2.50% per year
Salary increases	Graded by service, from 6.75% to 2.75%
Investment rate of return	7.38%, net of pension plan investment expenses. This is based on an average inflation rate of 2.50% and a real rate of return of 4.88%.
Mortality	Pre-termination and post-termination mortality rates were based upon the 2013-2017 actual mortality experience. Pre-termination mortality rates were based on 100% of the RP-2014 white-collar employee table with MP-2017 generational improvement. Post- termination mortality rates were based on 93% of male and 90% of female rates of the RP-2014 white-collar healthy annuitant table with MP-2017 generational improvement. Deaths are assumed to result from occupational causes 15% of the time.

The actuarial assumptions used in the June 30, 2018 actuarial valuation were based on the results of an actuarial experience study for the period July 1, 2013 to June 30, 2017. As a result of this experience study, the Board adopted updated actuarial assumptions for the June 30, 2018 actuarial valuation to better reflect expected future experience.

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2019

(b) Long-Term Expected Rate of Return

The long-term expected rate of return on Plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of Plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return, excluding the inflation component of 2.50%, for each major asset class included in the Plan's target asset allocation is summarized in the following table:

Asset class	Long-term expected real rate of return
Domestic equity	8.16%
Global equity (non-U.S.)	7.51
Intermediate treasuries	1.58
Opportunistic	3.96
Real assets	4.76
Private equity	11.39
Cash equivalents	0.83

(c) Discount Rate

The discount rate used to measure the total pension liability was 7.38%. The projection of cash flows used to determine the discount rate assumed that employer and nonemployer contributions will continue to follow the current funding policy, which meets State statutes. Based on those assumptions, the Plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on Plan investments was applied to all periods of projected benefit payments to determine the total pension liability in accordance with the method prescribed by GASB Statement No. 67, *Financial Reporting for Pension Plans*. In the event benefit payments are not covered by the Plan's fiduciary net position, a municipal bond rate would be used to discount the benefit payments not covered by the Plan's fiduciary net position, a monicipal Bond 20-Year High Grade Index rate was 2.79% as of June 30, 2019.

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2019

(d) Sensitivity of the Collective Net Pension Liability to Changes in the Discount Rate

The following presents the collective net pension liability of the Plan as of June 30, 2019 calculated using the discount rate of 7.38%, as well as what the Plan's collective net pension liability would be if it were calculated using a discount rate that is one percentage point lower or one percentage point higher than the current rate:

		Current		
1% decrease (6.38%)		discount rate (7.38%)	1% increase (8.38%)	
\$	2,691,688,000	1,868,543,000	1,177,412,000	

(6) Collective Deferred Outflows of Resources and Deferred Inflows of Resources

The following presents a summary of changes in the collective deferred outflows of resources and deferred inflows of resources (excluding employer specific amounts) for the year ended June 30, 2019:

	Year of deferral	Amortization period	I -	Beginning of year balance	Additions	Deductions	End of year balance
Deferred outflow s of resources: Difference betw een projected and actual earnings on							
pension plan investments	2015 2016 2017 2018 2019	5 years 5 years 5 years 5 years 5 years	\$ _	43,368,000 176,335,600 (143,735,400) (12,694,400) —	 	43,368,000 88,167,800 (47,911,800) (3,173,600) 16,292,600	
Total deferred outflows of resources	6		\$_	63,273,800	81,463,000	96,743,000	47,993,800
Deferred inflows of resources: Difference between expected							
and actual experience	2018 2019	1.7 years 1.6 years	\$ -	53,979,059 —	135,120,000	53,979,059 84,450,000	50,670,000
			_	53,979,059	135,120,000	138,429,059	50,670,000
Change in assumptions	2019	1.6 years	-	_	35,263,000	22,039,375	13,223,625
Total deferred inflows of resources			\$	53,979,059	170,383,000	160,468,434	63,893,625

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2019

Amounts reported as deferred outflows of resources and deferred inflows of resources (excluding employer specific amounts) related to pensions will be recognized in pension expense as follows:

Year ending June 30:	
2020	\$ (10,518,625)
2021	(34,792,800)
2022	13,119,000
2023	16,292,600
Total	\$ (15,899,825)

(7) Collective Pension Expense

The components of the collective pension expense (excluding employer specific amounts) for the year ending June 30, 2019 are as follows:

Service cost	\$	60,810,000
Interest on total pension liability		575,706,000
Member contributions		(35,763,000)
Administrative expense		3,018,000
Expected investment return net of investment expenses		(396,435,000)
Other		(32,000)
Recognition (amortization) of deferred outflows/inflows of resources:		
Difference between projected and actual investment earnings on		
pension plan investments		96,743,000
Change in assumptions		(22,039,375)
Difference between expected and actual experience	_	(138,429,059)
Total pension expense	\$	143,578,566

Supplemental Schedule of Employer Allocations of Special Funding Amounts (Unaudited)

As of and for the year ended June 30, 2019

Employer	Employer number		Present value of projected future State contributions	Employer proportionate share
Anchorage School District	701	\$	350,573,000	34.47837 %
Cordova City School District	704	Ŧ	3,179,000	0.31265
Craig City School District	705		2,785,000	0.27390
Fairbanks North Star Borough School District	706		101,769,000	10.00884
Haines Borough School District	707		1,931,000	0.18991
Hoonah City School District	708		817,000	0.08035
Hydaburg City School District	709		661,000	0.06501
Juneau Borough School District	710		38,549,000	3.79124
Kake City School District	712		1,270,000	0.12490
Ketchikan Gateway Borough School District	714		19,025,000	1.87108
Klawock City School District	717		1,688,000	0.16601
Kodiak Island Borough School District	718		18,152,000	1.78522
Nenana City School District	719		3,123,000	0.30714
Nome City School District	720		4,696,000	0.46185
Matanuska-Susitna Borough School District	722		130,690,000	12.85318
Pelican City School District	723		94,000	0.00924
Petersburg City School District	724		4,418,000	0.43450
Sitka Borough School District	727		12,948,000	1.27342
Skagway City School District	728		1,327,000	0.13051
Unalaska City School District	729		3,358,000	0.33025
Valdez City School District	730		5,323,000	0.52351
Wrangell Public School District	731		2,254,000	0.22168
Yakutat School District	732		590,000	0.05803
University of Alaska	733		40,743,000	4.00702
Galena City School District	735		7,264,000	0.71440
North Slope Borough School District	736		23,555,000	2.31660
Bristol Bay Borough School District	742		1,099,000	0.10809
Southeast Regional Resource Center	743		544,000	0.05350
Dillingham City School District	744		4,483,000	0.44090
Kenai Peninsula Borough School District	746		68,151,000	6.70256
Saint Mary's School District	748		1,676,000	0.16483
Northwest Arctic Borough School District	751		21,312,000	2.09601
Bering Strait School District	752		20,255,000	1.99205
Lower Yukon School District	753		17,042,000	1.67606
Lower Kuskokwim School District	754		36,407,000	3.58058
Kuspuk School District	755		3,737,000	0.36753
Southwest Region School District	756		7,362,000	0.72404
Lake And Peninsula Borough School District	757		5,169,000	0.50836
Aleutian Region School District	758		469,000	0.04613

Supplemental Schedule of Employer Allocations of Special Funding Amounts (Unaudited)

As of and for the year ended June 30, 2019

Employer	Employer number	 Present value of projected future State contributions	Employer proportionate share
Pribilof School District	759	\$ 702,000	0.06904 %
Iditarod Area School District	761	2,132,000	0.20968
Yukon / Koyukuk School District	762	6,692,000	0.65815
Yukon Flats School District	763	3,154,000	0.31019
Denali Borough School District	764	3,378,000	0.33222
Delta/Greely School District	765	5,511,000	0.54200
Alaska Gateway School District	766	3,700,000	0.36389
Copper River School District	767	2,532,000	0.24902
Chatham School District	768	1,680,000	0.16523
Southeast Island School District	769	2,384,000	0.23446
Annette Island School District	770	3,269,000	0.32150
Chugach School District	771	2,019,000	0.19857
Tanana School District	775	573,000	0.05635
Kashunamiut School District	777	2,252,000	0.22148
Yupiit School District	778	4,081,000	0.40136
Special Education Service Agency	779	1,259,000	0.12382
Aleutians East Borough School District	780	 2,985,000	0.29357
		\$ 1,016,791,000	100.00000 %

See accompanying independent auditors' report.

Supplemental Schedule of Special Funding Amounts by Employer (Unaudited)

As of and for the year ended June 30, 2019

Employer	Employer number		State proportionate share of net pension liability attributable to employer		Employer pension expense and related revenue attributable to special funding situation
Anchorage School District	701	\$	382,225,050	\$	29,370,117
Cordova City School District	704	Ψ	3,466,021	Ψ	266,329
Craig City School District	705		3,036,448		233,320
Fairbanks North Star Borough School District	706		110,957,378		8,525,948
Haines Borough School District	707		2,105,343		161,774
Hoonah City School District	708		890,764		68,446
Hydaburg City School District	709		720,679		55,377
Juneau Borough School District	710		42,029,458		3,229,537
Kake City School District	712		1,384,664		106,397
Ketchikan Gateway Borough School District	714		20,742,703		1,593,866
Klawock City School District	717		1,840,404		141,416
Kodiak Island Borough School District	718		19,790,882		1,520,728
Nenana City School District	719		3,404,965		261,637
Nome City School District	720		5,119,986		393,419
Matanuska-Susitna Borough School District	722		142,489,557		10,948,876
Pelican City School District	723		102,487		7,875
Petersburg City School District	724		4,816,886		370,129
Sitka Borough School District	727		14,117,031		1,084,751
Skagway City School District	728		1,446,810		111,173
Unalaska City School District	729		3,661,182		281,325
Valdez City School District	730		5,803,596		445,947
Wrangell Public School District	731		2,457,506		188,834
Yakutat School District	732		643,269		49,429
University of Alaska	733		44,421,547		3,413,345
Galena City School District	735		7,919,842		608,559
North Slope Borough School District	736		25,681,701		1,973,378
Bristol Bay Borough School District	742		1,198,225		92,071
Southeast Regional Resource Center	743		593,116		45,575
Dillingham City School District	744		4,887,755		375,574
Kenai Peninsula Borough School District	746		74,304,123		5,709,518
Saint Mary's School District	748		1,827,320		140,411
Northwest Arctic Borough School District	751		23,236,188		1,785,465
Bering Strait School District	752		22,083,755		1,696,912
Lower Yukon School District	753		18,580,664		1,427,735
Lower Kuskokwim School District	754		39,694,065		3,050,086
Kuspuk School District	755		4,074,401		313,076

Supplemental Schedule of Special Funding Amounts by Employer (Unaudited)

As of and for the year ended June 30, 2019

Employer	Employer number		State proportionate share of net pension liability attributable to employer	 Employer pension expense and related revenue attributable to special funding situation
Southwest Region School District	756	\$	8,026,690	\$ 616,770
Lake And Peninsula Borough School District	757	·	5,635,691	433,046
Aleutian Region School District	758		511,344	39,292
Pribilof School District	759		765,381	58,812
Iditarod Area School District	761		2,324,491	178,614
Yukon / Koyukuk School District	762		7,296,198	560,639
Yukon Flats School District	763		3,438,764	264,234
Denali Borough School District	764		3,682,988	283,000
Delta/Greely School District	765		6,008,569	461,698
Alaska Gateway School District	766		4,034,060	309,977
Copper River School District	767		2,760,606	212,125
Chatham School District	768		1,831,682	140,746
Southeast Island School District	769		2,599,243	199,725
Annette Island School District	770		3,564,147	273,869
Chugach School District	771		2,201,289	169,147
Tanana School District	775		624,734	48,004
Kashunamiut School District	777		2,455,325	188,667
Yupiit School District	778		4,449,460	341,896
Special Education Service Agency	779		1,372,671	105,476
Aleutians East Borough School District	780		3,254,506	 250,075
Total for all employers		\$_	1,108,593,610	\$ 85,184,167

See accompanying independent auditors' report.

Supplemental Schedule of Employer and Nonemployer Contributions (Unaudited)

For the year ended June 30, 2019

Employer/nonemployer	Employer number	Actual employer contributions
Employers:		
Anchorage School District	701	\$ 13,405,087
Cordova City School District	704	118,029
Craig City School District	705	114,814
Fairbanks North Star Borough School District	706	3,731,294
Haines Borough School District	707	38,117
Hoonah City School District	708	27,354
Hydaburg City School District	709	10,813
Juneau Borough School District	710	1,465,890
Kake City School District	712	18,019
Ketchikan Gateway Borough School District	714	826,781
Klawock City School District	717	73,941
Kodiak Island Borough School District	718	583,204
Nenana City School District	719	96,183
Nome City School District	720	113,224
Matanuska-Susitna Borough School District	722	4,982,200
Pelican City School District	723	(343)
Petersburg City School District	724	192,576
Sitka Borough School District	727	436,775
Skagway City School District	728	35,004
Unalaska City School District	729	72,536
Valdez City School District	730	248,144
Wrangell Public School District	731	74,356
Yakutat School District	732	21,722
University of Alaska	733	1,829,659
Galena City School District	735	221,982
North Slope Borough School District	736	649,289
State of Alaska	737	1,095,527
Bristol Bay Borough School District	742	26,751
Southeast Regional Resource Center	743	16,072
Dillingham City School District	744	82,530
Kenai Peninsula Borough School District	746	2,372,112
Saint Mary's School District	748	62,525
Northwest Arctic Borough School District	751	398,426
Bering Strait School District	752	405,562
Lower Yukon School District	753	519,029
Lower Kuskokwim School District	754	922,679
Kuspuk School District	755	76,182
Southwest Region School District	756	157,951
Lake And Peninsula Borough School District	757	46,896
Aleutian Region School District	758	11,751
Pribilof School District	759	9,192
Iditarod Area School District	761	45,915

Supplemental Schedule of Employer and Nonemployer Contributions (Unaudited)

For the year ended June 30, 2019

Employer/nonemployer	Employer number		Actual employer contributions
Yukon / Koyukuk School District	762	\$	184,057
Yukon Flats School District	763		69,750
Denali Borough School District	764		110,107
Delta/Greely School District	765		170,907
Alaska Gateway School District	766		82,923
Copper River School District	767		47,105
Chatham School District	768		16,403
Southeast Island School District	769		45,295
Annette Island School District	770		71,948
Chugach School District	771		92,071
Tanana School District	775		11,848
Kashunamiut School District	777		42,981
Yupiit School District	778		107,334
Special Education Service Agency	779		37,078
Aleutians East Borough School District	780		79,651
Total employer contributions			36,805,208
Nonemployer:			
State of Alaska	999	•	127,364,762
Total for all entities		\$	164,169,970

See accompanying independent auditors' report.