

MANHATTAN BEACH
PENSION OBLIGATION BOND SCENARIOS

MATURITY of 2041 FOR PUBLIC SAFETY AND MISCELLANEOUS

Required Contribution In	100% Fire UAL				100% Police UAL				100% Misc. UAL				100% Total UAL			
	19,942,282				42,841,197				28,807,225				91,590,704			
	TIC 2.75%				TIC 2.75%				TIC 2.75%				TIC 2.75%			
	Payment	POB Debt Service	Savings	PV Savings	Payment	POB Debt Service	Savings	PV Savings	Payment	POB Debt Service	Savings	PV Savings	Payment	POB Debt Service	Savings	PV Savings
6/30/2022	1,455,513	1,297,475	158,038	153,815	3,146,788	2,789,495	357,293	347,746	2,152,306	1,876,353	275,953	268,579	6,754,607	5,963,323	791,284	770,140
6/30/2023	1,623,787	1,300,469	323,318	306,270	3,488,182	2,788,265	699,918	663,013	2,401,557	1,872,890	528,668	500,792	7,513,526	5,961,623	1,551,903	1,470,075
6/30/2024	1,728,325	1,299,977	428,349	394,920	3,707,817	2,791,500	916,318	844,809	2,569,628	1,874,992	694,636	640,427	8,005,770	5,966,468	2,039,302	1,880,156
6/30/2025	1,833,254	1,295,797	537,458	482,274	3,927,876	2,786,790	1,141,087	1,023,925	2,746,690	1,876,762	869,928	780,608	8,507,820	5,959,348	2,548,472	2,286,808
6/30/2026	1,888,281	1,296,563	591,719	516,776	4,045,461	2,786,918	1,258,544	1,099,146	2,831,629	1,873,370	958,259	836,893	8,765,371	5,956,850	2,808,521	2,452,816
6/30/2027	1,936,747	1,297,463	639,284	543,399	4,153,200	2,786,600	1,366,601	1,161,626	2,907,340	1,872,995	1,034,345	879,205	8,997,287	5,957,058	3,040,230	2,584,229
6/30/2028	1,988,314	1,298,119	690,195	570,997	4,263,904	2,790,793	1,473,112	1,218,703	2,985,128	1,877,294	1,107,834	916,509	9,237,346	5,966,206	3,271,141	2,706,209
6/30/2029	2,041,300	1,298,519	742,782	598,082	4,377,647	2,788,635	1,589,012	1,279,460	3,065,060	1,873,934	1,191,127	959,086	9,484,007	5,961,087	3,522,920	2,836,628
6/30/2030	2,095,740	1,299,853	795,888	623,719	4,494,520	2,788,549	1,705,971	1,336,930	3,147,186	1,877,006	1,270,181	995,411	9,737,446	5,965,407	3,772,039	2,956,059
6/30/2031	2,151,679	1,299,844	851,836	649,726	4,614,615	2,790,642	1,823,973	1,391,210	3,231,573	1,873,116	1,358,458	1,036,145	9,997,867	5,963,601	4,034,266	3,077,081
6/30/2032	2,209,155	1,298,452	910,704	676,066	4,738,006	2,789,722	1,948,284	1,446,319	3,099,143	1,877,316	1,221,828	907,030	10,046,304	5,965,489	4,080,815	3,029,415
6/30/2033	2,180,785	1,300,637	880,149	635,924	4,692,888	2,790,699	1,902,189	1,374,368	3,056,143	1,874,322	1,181,822	853,889	9,929,816	5,965,657	3,964,159	2,864,181
6/30/2034	2,149,231	1,296,237	852,995	599,837	4,641,801	2,788,361	1,853,440	1,303,363	2,796,720	1,874,186	922,535	648,738	9,587,752	5,958,783	3,628,969	2,551,937
6/30/2035	2,081,873	1,300,329	781,545	534,907	4,520,361	2,787,608	1,732,753	1,185,935	2,685,440	1,876,721	808,720	553,506	9,287,674	5,964,657	3,323,017	2,274,347
6/30/2036	1,966,194	1,297,609	668,586	445,368	4,302,809	2,788,208	1,514,601	1,008,927	2,494,058	1,876,725	617,334	411,227	8,763,061	5,962,541	2,800,520	1,865,522
6/30/2037	1,763,276	1,298,639	464,638	301,240	3,907,144	2,790,212	1,116,932	724,145	2,161,929	1,877,587	284,343	184,349	7,832,349	5,966,437	1,865,912	1,209,735
6/30/2038	1,040,998	1,298,563	-257,565	-162,526	2,180,593	2,789,846	-609,253	-384,445	1,954,090	1,876,869	77,222	48,728	5,175,681	5,965,277	-789,596	-498,243
6/30/2039	901,291	1,297,381	-396,090	-243,258	1,899,588	2,787,110	-887,522	-545,071	1,733,242	1,874,571	-141,329	-86,797	4,534,121	5,959,061	-1,424,940	-875,126
6/30/2040	790,335	1,300,093	-509,758	-304,702	1,675,204	2,787,004	-1,111,800	-664,566	1,200,615	1,875,693	-675,078	-403,520	3,666,154	5,962,789	-2,296,635	-1,372,788
6/30/2041	721,935	1,296,541	-574,606	-334,286	1,537,394	2,789,370	-1,251,976	-728,358	1,088,522	1,875,077	-786,555	-457,591	3,347,851	5,960,987	-2,613,136	-1,520,236
6/30/2042	521,190	0	521,190	295,109	1,113,305	0	1,113,305	630,377	537,816	0	537,816	304,523	2,172,311	0	2,172,311	1,230,009
6/30/2043	498,899	0	498,899	274,939	1,036,551	0	1,036,551	571,234	225,725	0	225,725	124,395	1,761,175	0	1,761,175	970,569
6/30/2044	396,160	0	396,160	212,487	805,680	0	805,680	432,139	0	0	0	0	1,201,840	0	1,201,840	644,626
6/30/2045	203,438	0	203,438	106,202	391,190	0	391,190	204,214	0	0	0	0	594,628	0	594,628	310,416
6/30/2046	19,518	0	19,518	9,917	0	0	0	0	0	0	0	0	19,518	0	19,518	9,917
6/30/2047																
6/30/2048																
6/30/2049																
6/30/2050																
6/30/2051																
TOTAL	36,187,218	25,968,552	10,218,666	7,887,200	77,662,524	55,776,324	21,886,200	16,925,150	51,071,540	37,507,772	13,563,768	10,902,132	164,921,282	119,252,648	45,668,634	35,714,482

Source: Calpers, July 2020, Annual Valuation Reports as of June 30, 2019.