

MANHATTAN BEACH
PENSION OBLIGATION BOND SCENARIOS

MATURITY OF 2043 FOR PUBLIC SAFETY AND MISCELLANEOUS

Required Contribution In	100% Fire UAL				100% Police UAL				100% Misc. UAL				100% Total UAL			
	TIC 2.86%				TIC 2.86%				TIC 2.86%				TIC 2.86%			
	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	1,220,841	234,672	228,157	3,146,788	2,628,166	518,622	504,225	2,152,306	1,765,566	386,740	376,004	6,754,607	5,614,574	1,140,033	1,108,385
6/30/2023	1,623,787	1,223,952	399,835	377,944	3,488,182	2,623,619	864,564	817,228	2,401,557	1,766,647	634,910	600,148	7,513,526	5,614,218	1,899,309	1,795,320
6/30/2024	1,728,325	1,224,110	504,216	463,378	3,707,817	2,628,251	1,079,566	992,131	2,569,628	1,764,660	804,969	739,773	8,005,770	5,617,020	2,388,750	2,195,282
6/30/2025	1,833,254	1,221,010	612,245	547,038	3,927,876	2,625,863	1,302,013	1,163,344	2,746,690	1,767,996	978,695	874,460	8,507,820	5,614,868	2,892,952	2,584,842
6/30/2026	1,888,281	1,222,856	665,426	578,050	4,045,461	2,628,313	1,417,148	1,231,066	2,831,629	1,766,170	1,065,460	925,557	8,765,371	5,617,338	3,148,033	2,734,673
6/30/2027	1,936,747	1,225,386	711,361	600,799	4,153,200	2,626,500	1,526,701	1,289,416	2,907,340	1,768,158	1,139,182	962,127	8,997,287	5,620,044	3,377,244	2,852,342
6/30/2028	1,988,314	1,222,672	765,642	628,692	4,263,904	2,624,279	1,639,626	1,346,347	2,985,128	1,764,821	1,220,308	1,002,032	9,237,346	5,611,771	3,625,575	2,977,072
6/30/2029	2,041,300	1,220,371	820,929	655,377	4,377,647	2,627,158	1,750,489	1,397,478	3,065,060	1,764,855	1,300,206	1,038,001	9,484,007	5,612,384	3,871,624	3,090,856
6/30/2030	2,095,740	1,223,949	871,791	676,661	4,494,520	2,626,764	1,867,756	1,449,703	3,147,186	1,766,089	1,381,098	1,071,971	9,737,446	5,616,802	4,120,645	3,198,336
6/30/2031	2,151,679	1,221,294	930,385	702,093	4,614,615	2,623,886	1,990,729	1,502,257	3,231,573	1,765,623	1,465,951	1,106,245	9,997,867	5,610,803	4,387,065	3,310,596
6/30/2032	2,209,155	1,222,478	986,677	723,903	4,738,006	2,623,454	2,114,552	1,551,400	3,099,143	1,768,407	1,330,737	976,332	10,046,304	5,614,339	4,431,966	3,251,634
6/30/2033	2,180,785	1,222,354	958,431	683,659	4,692,888	2,625,281	2,067,607	1,474,845	3,056,143	1,764,274	1,291,870	921,504	9,929,816	5,611,909	4,317,908	3,080,008
6/30/2034	2,149,231	1,220,882	928,349	643,818	4,641,801	2,624,165	2,017,636	1,399,248	2,796,720	1,763,286	1,033,435	716,696	9,587,752	5,608,333	3,979,420	2,759,761
6/30/2035	2,081,873	1,223,022	858,851	579,086	4,520,361	2,625,016	1,895,345	1,277,948	2,685,440	1,765,266	920,175	620,433	9,287,674	5,613,304	3,674,371	2,477,467
6/30/2036	1,966,194	1,223,602	742,592	486,798	4,302,809	2,627,612	1,675,197	1,098,156	2,494,058	1,765,022	729,037	477,911	8,763,061	5,616,236	3,146,826	2,062,865
6/30/2037	1,763,276	1,223,582	539,694	343,969	3,907,144	2,628,148	1,278,996	815,156	2,161,929	1,766,730	395,200	251,877	7,832,349	5,618,460	2,213,890	1,411,001
6/30/2038	1,040,998	1,222,614	-181,616	-112,538	2,180,593	2,626,630	-446,037	-276,386	1,954,090	1,767,016	187,075	115,920	5,175,681	5,616,260	-440,579	-273,003
6/30/2039	901,291	1,220,698	-319,407	-192,425	1,899,588	2,628,058	-728,470	-438,863	1,733,242	1,765,880	-32,638	-19,662	4,534,121	5,614,636	-1,080,515	-650,951
6/30/2040	790,335	1,222,834	-432,499	-253,324	1,675,204	2,627,274	-952,070	-557,648	1,200,615	1,763,322	-562,707	-329,589	3,666,154	5,613,430	-1,947,276	-1,140,561
6/30/2041	721,935	1,223,864	-501,929	-285,829	1,537,394	2,624,278	-1,086,884	-618,938	1,088,522	1,764,342	-675,820	-384,853	3,347,851	5,612,484	-2,264,633	-1,289,621
6/30/2042	521,190	1,222,123	-700,933	-388,073	1,113,305	2,625,500	-1,512,195	-837,231	537,816	1,766,382	-1,228,566	-680,199	2,172,311	5,614,005	-3,441,694	-1,905,503
6/30/2043	498,899	1,224,224	-725,325	-390,430	1,036,551	2,624,074	-1,587,523	-854,537	225,725	1,766,601	-1,540,876	-829,427	1,761,175	5,614,899	-3,853,724	-2,074,394
6/30/2044	396,160	0	396,160	207,326	805,680	0	805,680	421,644	0	0	0	0	1,201,840	0	1,201,840	628,971
6/30/2045	203,438	0	203,438	103,512	391,190	0	391,190	199,042	0	0	0	0	594,628	0	594,628	302,554
6/30/2046	19,518	0	19,518	9,655	0	0	0	0	0	0	0	0	19,518	0	19,518	9,655
6/30/2047																
6/30/2048																
6/30/2049																
6/30/2050																
6/30/2051																
TOTAL	36,187,218	26,898,716	9,288,502	7,617,296	77,662,524	57,772,287	19,890,237	16,347,032	51,071,540	38,847,104	12,224,436	10,533,261	164,921,282	123,518,108	41,403,174	34,497,588

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