

Current Agreement vs Oct 2 Proposal Under MEDIUM Scenario

Proposal Summary: Cog pays City \$500,000 in 2018 and 2019 and \$250,000 in 2020. City waives use tax and rebates excise tax if it exceeds "Base Excise Tax" but with 3.8% minimum tax in years 26-50, and in all years revenue from ticket sales over 375,000 is taxed at full 5.0%.

Scenario Summary: "Medium": 2.75% increase in prices going from \$28 to \$100 over 50 years, and riders increasing to 400,000 in year 15.

		Green cells contain variable factors				CURRENT AGREEMENT				Oct 2 PROPOSAL							
Initial Project Cost:		\$ 95,000,000	Max AVERAGE Ticket Price:		\$ 100.00	NPV of Rebates		NPV of Taxes		NPV of Taxes		NPV of Tax Savings					
Yr 15 Car Cost:		\$ 20,000,000	Annual Increase Rate:		2.75%	\$7,865,912		\$14,329,194		\$18,836,822		\$3,358,284					
Discount Rate(2):		3.0%	Max Ticket Sales:		400,000												
			Annual Ridership Increase:		2.50%					Change (Current Vs PROPOSAL):		\$ 4,507,628 (\$4,507,628)					
Year	Year #	Increase	Base Excise Tax (or Payment)	Average Ticket Price	Ticket Sales	Ticket Revenue	Net Project Revenue (not including any operating cost)	Total Excise Tax Revenue(1)	Annual Rebate Amount	Net Tax After Rebate	Effective Tax Rate With No Maximum Rebate	Minimum Tax % (PROPOSAL)	Tax on Revenue from Ticket Sales Exceeding 375,000	Tax \$ (PROPOSAL)	Annual Tax Savings (PROPOSAL)	Change in Net Tax (PROPOSAL)	
2018	1	0.0%	\$ 500,000	\$ -	-	\$ -	\$ (500,000)	\$ -	\$ (500,000)	\$ 500,000			\$ -	\$ 500,000	\$ (500,000)	\$ -	
2019	2	0.0%	\$ 500,000	\$ -	-	\$ -	\$ (96,000,000)	\$ -	\$ (500,000)	\$ 500,000			\$ -	\$ 500,000	\$ (500,000)	\$ -	
2020	3	0.0%	\$ 250,000	\$ 28.00	-	\$ -	\$ (96,000,000)	\$ -	\$ (250,000)	\$ 250,000			\$ -	\$ 250,000	\$ (250,000)	\$ -	
2021	4	1.5%	\$ 507,500	\$ 28.77	300,000	\$ 8,631,000	\$ (87,369,000)	\$ 431,550	\$ -	\$ 431,550	5.0%	NA	\$ -	\$ 431,550	\$ -	\$ -	
2022	5	0.0%	\$ 507,500	\$ 29.56	350,000	\$ 10,346,411	\$ (77,022,589)	\$ 517,321	\$ 9,821	\$ 507,500	4.9%	NA	\$ -	\$ 507,500	\$ 9,821	\$ -	
2023	6	0.0%	\$ 507,500	\$ 30.37	350,000	\$ 10,630,938	\$ (66,391,651)	\$ 531,547	\$ 24,047	\$ 507,500	4.8%	NA	\$ -	\$ 507,500	\$ 24,047	\$ -	
2024	7	0.0%	\$ 507,500	\$ 31.21	358,750	\$ 11,196,371	\$ (55,195,281)	\$ 559,819	\$ 52,319	\$ 507,500	4.5%	NA	\$ -	\$ 507,500	\$ 52,319	\$ -	
2025	8	1.5%	\$ 515,113	\$ 32.07	358,750	\$ 11,504,271	\$ (43,691,010)	\$ 575,214	\$ 60,101	\$ 515,113	4.5%	NA	\$ -	\$ 515,113	\$ 60,101	\$ -	
2026	9	0.0%	\$ 515,113	\$ 32.95	367,719	\$ 12,116,154	\$ (31,574,856)	\$ 605,808	\$ 90,695	\$ 515,113	4.3%	NA	\$ -	\$ 515,113	\$ 90,695	\$ -	
2027	10	0.0%	\$ 515,113	\$ 33.86	367,719	\$ 12,449,348	\$ (19,125,507)	\$ 622,467	\$ 107,355	\$ 515,113	4.1%	NA	\$ -	\$ 515,113	\$ 107,355	\$ -	
2028	11	0.0%	\$ 515,113	\$ 34.79	376,912	\$ 13,111,498	\$ (6,014,009)	\$ 655,575	\$ 140,462	\$ 515,113	3.9%	NA	\$ 3,325	\$ 518,438	\$ 137,137	\$ 3,325	
2029	12	2.5%	\$ 527,990	\$ 35.74	376,912	\$ 13,472,064	\$ 7,458,055	\$ 673,603	\$ 145,613	\$ 527,990	3.9%	NA	\$ 3,417	\$ 531,407	\$ 142,196	\$ 3,417	
2030	13	0.0%	\$ 527,990	\$ 36.73	386,335	\$ 14,188,610	\$ 21,646,665	\$ 709,430	\$ 181,440	\$ 527,990	3.7%	NA	\$ 20,814	\$ 548,804	\$ 160,626	\$ 20,814	
2031	14	0.0%	\$ 527,990	\$ 37.74	386,335	\$ 14,578,796	\$ 36,225,461	\$ 728,940	\$ 200,950	\$ 527,990	3.6%	NA	\$ 21,386	\$ 549,376	\$ 179,563	\$ 21,386	
2032	15	0.0%	\$ 527,990	\$ 38.77	395,993	\$ 15,354,206	\$ 11,579,667	\$ 767,710	\$ 239,720	\$ 527,990	3.4%	NA	\$ 40,699	\$ 568,689	\$ 199,021	\$ 40,699	
2033	16	1.5%	\$ 535,910	\$ 39.84	400,000	\$ 15,936,092	\$ 27,515,759	\$ 796,805	\$ 260,894	\$ 535,910	3.4%	NA	\$ 49,800	\$ 585,710	\$ 211,094	\$ 49,800	
2034	17	0.0%	\$ 535,910	\$ 40.94	400,000	\$ 16,374,334	\$ 43,890,093	\$ 818,717	\$ 282,807	\$ 535,910	3.3%	NA	\$ 51,170	\$ 587,080	\$ 231,637	\$ 51,170	
2035	18	0.0%	\$ 535,910	\$ 42.06	400,000	\$ 16,824,628	\$ 60,714,722	\$ 841,231	\$ 305,321	\$ 535,910	3.2%	NA	\$ 52,577	\$ 588,487	\$ 252,744	\$ 52,577	
2036	19	0.0%	\$ 535,910	\$ 43.22	400,000	\$ 17,287,306	\$ 78,002,027	\$ 864,365	\$ 328,455	\$ 535,910	3.1%	NA	\$ 54,023	\$ 589,933	\$ 274,432	\$ 54,023	
2037	20	1.5%	\$ 543,949	\$ 44.41	400,000	\$ 17,762,707	\$ 95,764,734	\$ 888,135	\$ 344,187	\$ 543,949	3.1%	NA	\$ 55,508	\$ 599,457	\$ 288,678	\$ 55,508	
2038	21	0.0%	\$ 543,949	\$ 45.63	400,000	\$ 18,251,181	\$ 114,015,915	\$ 912,559	\$ 368,610	\$ 543,949	3.0%	NA	\$ 57,035	\$ 600,984	\$ 311,575	\$ 57,035	
2039	22	0.0%	\$ 543,949	\$ 46.88	400,000	\$ 18,753,088	\$ 132,769,004	\$ 937,654	\$ 393,706	\$ 543,949	2.9%	NA	\$ 58,603	\$ 602,552	\$ 335,102	\$ 58,603	
2040	23	0.0%	\$ 543,949	\$ 48.17	400,000	\$ 19,268,798	\$ 152,037,802	\$ 963,440	\$ 419,491	\$ 543,949	2.8%	NA	\$ 60,215	\$ 604,164	\$ 359,276	\$ 60,215	
2041	24	2.5%	\$ 557,548	\$ 49.50	400,000	\$ 19,798,690	\$ 171,836,492	\$ 989,935	\$ 432,387	\$ 557,548	2.8%	NA	\$ 61,871	\$ 619,418	\$ 370,516	\$ 61,871	
2042	25	0.0%	\$ 557,548	\$ 50.86	400,000	\$ 20,343,154	\$ 192,179,647	\$ 1,017,158	\$ 459,610	\$ 557,548	2.7%	NA	\$ 63,572	\$ 621,120	\$ 396,038	\$ 63,572	
2043	26	0.0%	\$ 557,548	\$ 52.26	400,000	\$ 20,902,591	\$ 213,082,238	\$ 1,045,130	\$ 487,582	\$ 557,548	2.7%	3.8%	\$ 65,321	\$ 859,619	\$ 185,510	\$ 302,072	
2044	27	0.0%	\$ 557,548	\$ 53.69	400,000	\$ 21,477,412	\$ 234,559,650	\$ 1,073,871	\$ 516,323	\$ 557,548	2.6%	3.8%	\$ 67,117	\$ 883,259	\$ 190,612	\$ 325,711	
2045	28	1.5%	\$ 565,911	\$ 55.17	400,000	\$ 22,068,041	\$ 256,627,691	\$ 1,103,402	\$ 537,491	\$ 565,911	2.6%	3.8%	\$ 68,963	\$ 907,548	\$ 195,854	\$ 341,637	
2046	29	0.0%	\$ 565,911	\$ 56.69	400,000	\$ 22,674,912	\$ 279,302,604	\$ 1,133,746	\$ 567,835	\$ 565,911	2.5%	3.8%	\$ 70,859	\$ 932,506	\$ 201,240	\$ 366,595	
2047	30	NA	\$ 650,000	\$ 58.25	400,000	\$ 23,298,472	\$ 302,601,076	\$ 1,164,924	\$ 514,924	\$ 650,000	2.8%	3.8%	\$ 72,808	\$ 958,150	\$ 206,774	\$ 308,150	
2048	31	NA	\$ 650,000	\$ 59.85	400,000	\$ 23,939,180	\$ 326,540,257	\$ 1,196,959	\$ 546,959	\$ 650,000	2.7%	3.8%	\$ 74,810	\$ 984,499	\$ 212,460	\$ 334,499	
2049	32	NA	\$ 650,000	\$ 61.49	400,000	\$ 24,597,508	\$ 351,137,765	\$ 1,229,875	\$ 579,875	\$ 650,000	2.6%	3.8%	\$ 76,867	\$ 1,011,573	\$ 218,303	\$ 361,573	
2050	33	NA	\$ 650,000	\$ 63.18	400,000	\$ 25,273,939	\$ 376,411,704	\$ 1,263,697	\$ 613,697	\$ 650,000	2.6%	3.8%	\$ 78,981	\$ 1,039,391	\$ 224,306	\$ 389,391	
2051	34	NA	\$ 650,000	\$ 64.92	400,000	\$ 25,968,973	\$ 402,380,677	\$ 1,298,449	\$ 648,449	\$ 650,000	2.5%	3.8%	\$ 81,153	\$ 1,067,974	\$ 230,475	\$ 417,974	
2052	35	NA	\$ 650,000	\$ 66.71	400,000	\$ 26,683,119	\$ 429,063,796	\$ 1,334,156	\$ 684,156	\$ 650,000	2.4%	3.8%	\$ 83,385	\$ 1,097,343	\$ 236,813	\$ 447,343	
2053	36	NA	\$ 675,000	\$ 68.54	400,000	\$ 27,416,905	\$ 456,480,701	\$ 1,370,845	\$ 695,845	\$ 675,000	2.5%	3.8%	\$ 85,678	\$ 1,127,520	\$ 243,325	\$ 452,520	
2054	37	NA	\$ 675,000	\$ 70.43	400,000	\$ 28,170,870	\$ 484,651,571	\$ 1,408,544	\$ 733,544	\$ 675,000	2.4%	3.8%	\$ 88,034	\$ 1,158,527	\$ 250,016	\$ 483,527	
2055	38	NA	\$ 675,000	\$ 72.36	400,000	\$ 28,945,569	\$ 513,597,140	\$ 1,447,278	\$ 772,278	\$ 675,000	2.3%	3.8%	\$ 90,455	\$ 1,190,387	\$ 256,892	\$ 515,387	
2056	39	NA	\$ 675,000	\$ 74.35	400,000	\$ 29,741,572	\$ 543,338,713	\$ 1,487,079	\$ 812,079	\$ 675,000	2.3%	3.8%	\$ 92,942	\$ 1,223,122	\$ 263,956	\$ 548,122	
2057	40	NA	\$ 725,000	\$ 76.40	400,000	\$ 30,559,465	\$ 573,898,178	\$ 1,527,973	\$ 802,973	\$ 725,000	2.4%	3.8%	\$ 95,498	\$ 1,256,758	\$ 271,215	\$ 531,758	
2058	41	NA	\$ 725,000	\$ 78.50	400,000	\$ 31,399,851	\$ 605,298,029	\$ 1,569,993	\$ 844,993	\$ 725,000	2.3%	3.8%	\$ 98,125	\$ 1,291,319	\$ 278,674	\$ 566,319	
2059	42	NA	\$ 725,000	\$ 80.66	400,000	\$ 32,263,347	\$ 637,561,375	\$ 1,613,167	\$ 888,167	\$ 725,000	2.2%	3.8%	\$ 100,823	\$ 1,326,830	\$ 286,337	\$ 601,830	
2060	43	NA	\$ 725,000	\$ 82.88	400,000	\$ 33,150,589	\$ 670,711,964	\$ 1,657,529	\$ 932,529	\$ 725,000	2.2%	3.8%	\$ 103,596	\$ 1,363,318	\$ 294,211	\$ 638,318	
2061	44	NA	\$ 725,000	\$ 85.16	400,000	\$ 34,062,230	\$ 704,774,194	\$ 1,703,111	\$ 978,111	\$ 725,000	2.1%	3.8%	\$ 106,444	\$ 1,400,809	\$ 302,302	\$ 675,809	
2062	45	NA	\$ 750,000	\$ 87.50	400,000	\$ 34,998,941	\$ 739,773,135	\$ 1,749,947	\$ 999,947	\$ 750,000	2.1%	3.8%	\$ 109,372	\$ 1,439,331	\$ 310,616	\$ 689,331	
2063	46	NA	\$ 750,000	\$ 89.90	400,000	\$ 35,961,412	\$ 775,734,547	\$ 1,798,071	\$ 1,048,071	\$ 750,000	2.1%	3.8%	\$ 112,379	\$ 1,478,913	\$ 319,158	\$ 728,913	
2064	47	NA	\$ 750,000	\$ 92.38	400,000	\$ 36,950,351	\$ 812,684,898	\$ 1,847,518	\$ 1,097,518	\$ 750,000	2.0%	3.8%	\$ 115,470	\$ 1,519,583	\$ 327,934	\$ 769,583	
2065	48	NA	\$ 750,000	\$ 94.92	400,000	\$ 37,965,486	\$ 850,651,383	\$ 1,898,324	\$ 1,148,324	\$ 750,000	2.0%	3.8%	\$ 118,645	\$ 1,561,372	\$ 336,953	\$ 811,372	
2066	49	NA	\$ 750,000	\$ 97.53	400,000	\$ 39,010,564	\$ 889,661,947	\$ 1,950,528	\$ 1,200,528	\$ 750,000	1.9%	3.8%	\$ 121,908	\$ 1,604,309	\$ 346,219	\$ 854,309	
2067	50	NA	\$ 750,000	\$ 100.00	400,000	\$ 40,000,000	\$ 929,661,947	\$ 2,000,000	\$ 1,250,000	\$ 750,000	1.9%	3.8%	\$ 125,000	\$ 1,645,000	\$ 355,000	\$ 895,000	
											\$ 23,500,189	\$ 29,782,909	3.0%	\$ 2,958,647	\$ 43,793,967	\$ 9,489,130	

1. Average Price X Ticket Sales X 5% Excise Tax = Excise Tax Revenue
 2. See <https://impactdatasource.com/choosing-a-discount-rate/> for more information on Discount Rates.