

Appendix 1M Table 1
 Projected Earth Tech Water Supply Charges

Fiscal Year	Tier 1 (first 3 MGD)		Tier 2 (over 3 MGD)		Total Supply (Kgal)	Total Water Supply Cost	Unit Cost (\$/Kgal)
	Sales (Kgal)	Charge @ \$1.57/Kgal	Sales (Kgal)	Charge @ \$.15/Kgal			
FY 2003-04	1,098,000	1,723,860	200,913	\$30,137	1,298,913	\$1,753,997	\$1.35
FY 2004-05	1,098,000	\$1,723,860	168,440	\$25,266	1,266,440	\$1,749,126	\$1.38
FY 2005-06	549,000	\$861,930	100,000	\$15,000	649,000	\$876,930	\$1.35

Earth Tech Buyout Costs (a)	Buyout Cost Allocations		
	Capital	Penalty	Total
	\$5,000,000	\$970,000	\$5,970,000

a. GWA bought out Earth Tech water supply contract midyear in FY 2005-06 (3/06) for a payment of \$5.9 million. This payment is both for acquisition of assets funded from the 2005 Bond Proceeds, and a penalty charge.
 Appendix 1M Table 3 is deleted.

Appendix 1M Table 2
Historical Customer Demands

Class	Code	Total	Total	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
		FY 2002-03	FY 2003-04	2004	2004	2004	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
Water Sales (actual readings, Thousand gallons)																
Agricultural	A	131,050	125,422	8,492	15,346	8,511	15,766	8,279	9,793	17,352	17,039	16,348	13,932	11,784	23,024	165,666
Golf Course	B	17,840	5,677	(1,004)	544	225	515	4408	4408	4408	4408	4408	2,729	2,676	309	28,035
Commercial 1	C	795,544	664,379	60,937	58,780	55,330	69,606	50,381	31,316	54,173	152,447	71,877	72,070	77,529	21,040	775,486
Commercial 2	D	150,952	166,163	16,132	13,552	12,789	15,354	6,203	9,516	10,281	9,134	11,524	10,425	10,358	10,746	136,013
Commercial 3	E	128,509	148,152	11,042	15,729	12,753	15,745	9,179	8,621	12,022	11,564	12,687	13,329	12,728	12,265	147,664
Federal	F	4,491	5,748	45	190	174	160	122	113	158	153	122	163	168	72	1,640
Government	G	830,141	490,748	38,484	44,932	36,672	45,573	24,959	29,219	35,848	40,125	31,452	23,506	27,313	43,453	421,535
Hotel	H	780,903	897,799	83,076	79,131	84,872	88,470	42,849	68,848	72,506	67,142	78,994	69,953	81,575	87,163	904,579
Irrigation	I	62,196	49,784	4,040	3,666	5,293	5,640	3,759	2,776	4,662	4,752	4,717	5,063	3,326	3,346	51,041
Residential	R	4,051,592	4,042,113	401,968	369,267	316,878	363,622	292,366	196,412	342,475	332,521	345,251	317,676	350,346	355,979	3,984,761
Total		6,953,219	6,595,984	623,211	601,137	533,496	620,452	442,504	361,023	553,884	639,284	577,380	528,848	577,803	557,397	6,616,419
Wastewater Sales (Thousand gallons of discharged wastewater billed)																
Commercial 1	C	507,306	404,017	37,630	37,831	34,860	44,530	33,467	18,161	34,789	35,491	36,387	36,576	35,992	36,920	422,634
Commercial 2	D	117,346	129,045	12,622	10,511	9,833	11,743	4,645	7,435	8,049	7,053	8,957	8,551	8,176	8,580	106,154
Commercial 3	E	100,821	116,078	8,623	12,333	9,839	12,432	7,147	6,685	9,350	9,038	9,887	10,429	10,933	9,578	116,273
Federal	F	3,503	743,541	48,574	50,468	47,454	48,307	50,270	50,095	49,900	54,738	8,393	41,066	45,345	51,487	546,095
Government	G	487,495	315,984	25,707	28,314	25,749	29,161	16,214	21,211	22,775	26,884	23,624	14,491	24,413	25,987	284,529
Hotel	H	538,109	599,332	54,619	52,777	57,184	55,628	30,572	43,626	46,329	43,298	52,636	44,216	53,714	58,477	593,079
Residential	R	2,342,969	2,350,671	230,465	211,687	180,697	215,386	167,759	104,189	198,341	192,131	193,720	184,676	205,498	207,333	2,291,882
Total		4,097,549	4,658,666	418,239	403,921	365,616	417,187	310,073	251,401	369,533	368,633	333,604	340,005	384,071	398,364	4,360,647
Water Customers																
Agricultural	A	566	566	565	564	565	558	555	557	557	541	544	535	532	533	533
Golf Course	B	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14
Commercial 1	C	2,167	2,124	2,131	2,139	2,131	2,140	2,121	2,131	2,158	2,155	2,152	2,132	2,142	2,144	2,144
Commercial 2	D	34	35	33	33	33	33	33	33	32	32	32	32	32	32	32
Commercial 3	E	193	195	193	196	196	196	194	194	199	197	195	195	195	192	192
Federal	F	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Government	G	561	483	479	480	475	477	478	465	458	458	455	447	436	435	435
Hotel	H	54	52	52	53	54	54	54	54	56	56	55	56	56	56	56
Irrigation	I	265	254	251	249	248	245	244	244	244	239	238	235	231	228	228
Residential	R	34,729	34,516	34,396	34,525	34,283	34,344	34,010	34,029	34,589	34,146	34,358	33,904	33,995	34,171	34,171
Total		38,595	38,252	38,127	38,266	38,012	38,074	37,716	37,734	38,320	37,851	38,056	37,563	37,646	37,817	37,817
Wastewater Customers																
Commercial 1	C			1,677.00	1,678.00	1,673.00	1,681.00	1,668.00	1,672.00	1,697.00	1,702.00	1,693.00	1,674.00	1,681.00	1,680.00	1,680
Commercial 2	D			32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32
Commercial 3	E			184.00	186.00	185.00	186.00	184.00	184.00	190.00	189.00	187.00	186.00	187.00	185.00	185
Federal	F			9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9
Government	G			318.00	318.00	313.00	312.00	313.00	305.00	301.00	300.00	299.00	293.00	285.00	283.00	283
Hotel	H			49.00	50.00	51.00	51.00	51.00	51.00	52.00	52.00	51.00	52.00	52.00	52.00	52
Residential	R			20,195	20,306	20,143	20,205	19,982	19,978	20,377	20,186	20,316	20,021	20,111	20,260	20,260
Total		22,502	22,507	22,464	22,579	22,406	22,476	22,239	22,231	22,658	22,470	22,587	22,267	22,357	22,501	22,501

Values differ from reported revenues-based loads.

Appendix 1M Table 3
 FY 2005-06 Water Bills

Class	2005 Bill Count	2004 Meters	Sept. 2005 Meters
Agricultural	6,617	536	533
Golf Course	180	14	14
Commercial C	25,691	2,102	2,144
Commercial D	390	33	32
Commercial E	2,342	193	192
Federal	144	11	12
Government	5,545	493	435
Hotel	656	54	56
Irrigation	2,898	246	228
Residential (bills < 5Kgal/month)	146,768		
Residential (bills > 5Kgal/month)	262,988		
Total Residential	409,756	33,504	34,171
Total	454,219	37,186	37,817

Appendix 1M Table 4
Residential Water Demand Characteristics FY 2004-05

Consumption Range (gal/month)	Water Meter Size (inches)				Total Meter Readings	Total Water Use (Kgal)	Cumulative Use	
	3/4"	1"	1.5"	2" & Larger			Kgal/Month	Share
0	17,566	366	100	92	18,124	0	0	0%
1 - 1000	21,212	489	48	33	21,782	17,426	17,426	0%
1001 - 2000	23,252	384	31	24	23,691	42,644	60,069	2%
2001 - 3000	24,634	381	41	20	25,076	70,213	130,282	3%
3001 - 4000	27,745	378	44	28	28,195	107,141	237,423	6%
<i>Lifeline: 4001 - 5000</i>	<i>29,432</i>	<i>404</i>	<i>39</i>	<i>25</i>	<i>29,900</i>	<i>143,520</i>	<i>380,943</i>	<i>10%</i>
5001 - 6000	29,040	398	27	28	29,493	162,212	543,155	14%
6001 - 7000	27,453	326	20	20	27,819	178,042	721,196	18%
<i>Median Use: 7001 - 8000</i>	<i>25,281</i>	<i>271</i>	<i>28</i>	<i>17</i>	<i>25,597</i>	<i>186,858</i>	<i>908,054</i>	<i>23%</i>
8001 - 9000	22,240	269	26	17	22,552	184,926	1,092,981	27%
<i>Avg. Use: 9001 -10000</i>	<i>19,771</i>	<i>227</i>	<i>31</i>	<i>26</i>	<i>20,055</i>	<i>184,506</i>	<i>1,277,487</i>	<i>32%</i>
10001-11000	17,028	205	35	11	17,279	176,246	1,453,733	36%
11001-12000	14,362	202	21	24	14,609	163,621	1,617,353	41%
12001-13000	12,372	158	29	12	12,571	153,366	1,770,720	44%
13001-14000	11,225	117	29	8	11,379	150,203	1,920,922	48%
<i>50% of Use: 14001-15000</i>	<i>10,251</i>	<i>109</i>	<i>12</i>	<i>17</i>	<i>10,389</i>	<i>147,524</i>	<i>2,068,446</i>	<i>52%</i>
15001-16000	9,088	96	14	7	9,205	139,916	2,208,362	55%
16001-17000	6,976	87	12	3	7,078	114,664	2,323,026	58%
17001-18000	5,695	73	16	10	5,794	99,657	2,422,683	61%
18001-19000	4,824	74	7	3	4,908	89,326	2,512,008	63%
19001-20000	4,280	62	20	11	4,373	83,962	2,595,970	65%
20001-21000	3,633	69	27	2	3,731	75,366	2,671,336	67%
21001-22000	3,210	44	8	8	3,270	69,324	2,740,660	69%
22001-23000	2,798	162	7	5	2,972	65,978	2,806,638	70%
23001-24000	2,376	34	16	7	2,433	56,446	2,863,084	72%
24001-25000	2,210	37	10	6	2,263	54,765	2,917,849	73%
25001-26000	1,959	35	10	8	2,012	50,702	2,968,551	74%
26001-27000	1,763	39	11	4	1,817	47,605	3,016,156	76%
27001-28000	1,564	25	11	11	1,611	43,819	3,059,976	77%
28001-29000	1,404	26	8	4	1,442	40,664	3,100,640	78%
29001-30000	1,198	20	6	2	1,226	35,799	3,136,439	79%
30001-31000	1,058	29	6	7	1,100	33,000	3,169,439	80%
31001-32000	985	14	10	3	1,012	31,372	3,200,811	80%
32001-33000	936	11	9	2	958	30,656	3,231,467	81%
33001-34000	793	14	7	1	815	26,895	3,258,362	82%
34001-35000	731	11	6	4	752	25,568	3,283,930	82%
35001-36000	700	17	8	4	729	25,515	3,309,445	83%
36001-37000	656	13	5	2	676	24,336	3,333,781	84%
37001-38000	623	9	6	3	641	23,717	3,357,498	84%
38001-39000	512	12	11	4	539	20,482	3,377,980	85%
39001-40000	522	19	8	6	555	21,645	3,399,625	85%
40001-41000	417	10	4	7	438	17,520	3,417,145	86%
41001-42000	404	6	5	3	418	17,138	3,434,283	86%
42001-43000	381	5	3	5	394	16,548	3,450,831	87%
43001-44000	353	11	4	3	371	15,953	3,466,784	87%
44001-45000	353	3	4	3	363	15,972	3,482,756	87%
45001-46000	327	9	4	4	344	15,480	3,498,236	88%
46001-47000	331	11	7	13	362	16,652	3,514,888	88%
47001-48000	290	6	3	6	305	14,335	3,529,223	89%
48001-49000	288	8		5	301	14,448	3,543,671	89%
49001-50000	239	4	2	2	247	12,103	3,555,774	89%
50001-51000	214	4	6	6	230	11,500	3,567,274	90%
51001-52000	207	5	4	1	217	11,067	3,578,341	90%

Appendix 1M Table 4
Residential Water Demand Characteristics FY 2004-05

Consumption Range (gal/month)	Water Meter Size (inches)				Total Meter Readings	Total Water Use (Kgal)	Cumulative Use	
	3/4"	1"	1.5"	2" & Larger			Kgal/Month	Share
52001-53000	210	1	8	5	224	11,648	3,589,989	90%
53001-54000	175	9	1	3	188	9,964	3,599,953	90%
54001-55000	193	6	3	2	204	11,016	3,610,969	91%
55001-56000	177	2	3	7	189	10,395	3,621,364	91%
56001-57000	151	4	2	4	161	9,016	3,630,380	91%
57001-58000	184	5	1	3	193	11,001	3,641,381	91%
58001-59000	141	1		5	147	8,526	3,649,907	92%
59001-60000	163		2	6	171	10,089	3,659,996	92%
60001-61000	126	8	1	1	136	8,160	3,668,156	92%
61001-62000	115	5	1	3	124	7,564	3,675,720	92%
62001-63000	95	8	2	1	106	6,572	3,682,292	92%
63001-64000	114	8		1	123	7,749	3,690,041	93%
64001-65000	121	3		5	129	8,256	3,698,297	93%
65001-66000	108	4	2	6	120	7,800	3,706,097	93%
66001-67000	112	1	1	0	114	7,524	3,713,621	93%
67001-68000	85	1	1	3	90	6,030	3,719,651	93%
68001-69000	95	1	3	3	102	6,936	3,726,587	94%
69001-70000	88	3	5	8	104	7,176	3,733,763	94%
70001-71000	100	5	15	4	124	8,680	3,742,443	94%
71001-72000	85	7	4	5	101	7,171	3,749,614	94%
72001-73000	78		1	2	81	5,832	3,755,446	94%
73001-74000	62		2	1	65	4,745	3,760,191	94%
74001-75000	70	6	5	3	84	6,216	3,766,407	95%
75001-76000	76	5	1	3	85	6,375	3,772,782	95%
76001-77000	65	3	4	4	76	5,776	3,778,558	95%
77001-78000	54	1		2	57	4,389	3,782,947	95%
78001-79000	54	1	1	2	58	4,524	3,787,471	95%
79001-80000	50			1	51	4,029	3,791,500	95%
80001-81000	51	3	1	3	58	4,640	3,796,140	95%
81001-82000	45	4	1	1	51	4,131	3,800,271	95%
82001-83000	40	2		1	43	3,526	3,803,797	95%
83001-84000	56	2	1	1	60	4,980	3,808,777	96%
84001-85000	60			1	61	5,124	3,813,901	96%
85001-86000	56	2	2	2	62	5,270	3,819,171	96%
86001-87000	46	1	1	4	52	4,472	3,823,643	96%
87001-88000	38		1	4	43	3,741	3,827,384	96%
88001-89000	41			2	43	3,784	3,831,168	96%
89001-90000	43	2	3	1	49	4,361	3,835,529	96%
90001-91000	44	2	2	3	51	4,590	3,840,119	96%
91001-92000	35	1		2	38	3,458	3,843,577	96%
92001-93000	36	3	2	2	43	3,956	3,847,533	97%
93001-94000	35	2		0	37	3,441	3,850,974	97%
94001-95000	38		1	4	43	4,042	3,855,016	97%
95001-96000	37		1	2	40	3,800	3,858,816	97%
96001-97000	29	1		3	33	3,168	3,861,984	97%
97001-98000	32	1		2	35	3,395	3,865,379	97%
98001-99000	43	1	2	1	47	4,606	3,869,985	97%
99001-100000	45	1		4	50	4,950	3,874,935	97%
Greater than 10000	500	78	75	344	997	109,826	3,984,761	100%
Total	401,659	6,002	1,028	1,067	409,756	3,984,761		

Readings per year with demand of 5 Kgal per month or less

146,768

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Appendix 1M Table 5
Monthly and Diurnal Water Demands

24 Hour Period	Typical Diurnal Coefficient (a)	GWA System Leaks (b)	DWA Demand (as ratio of total production)	GWA Diurnal Demand Coefficient
1	60%	20%	48%	68%
2	45%	20%	36%	56%
3	55%	20%	44%	64%
4	70%	20%	56%	76%
5	90%	20%	72%	92%
6	125%	20%	100%	120%
7	150%	20%	120%	140%
8	125%	20%	100%	120%
9	114%	20%	91%	111%
10	100%	20%	80%	100%
11	115%	20%	92%	112%
12	135%	20%	108%	128%
13	115%	20%	92%	112%
14	112%	20%	90%	110%
15	100%	20%	80%	100%
16	112%	20%	90%	110%
17	120%	20%	96%	116%
18	140%	20%	112%	132%
19	122%	20%	98%	118%
20	105%	20%	84%	104%
21	90%	20%	72%	92%
22	80%	20%	64%	84%
23	60%	20%	48%	68%
24	60%	20%	48%	68%
	100%	20%	80%	100%

2005 Deep Well Water Production (Kgals)

Jan	Feb	Mar	Apr	May	Jun
988,247	867,013	978,265	956,207	975,557	973,559
Jul	Aug	Sep	Oct	Nov	Dec
965,200	964,930	940,084	972,798	964,998	999,663

Year Total	Avg. Month	Maximum Month	Max to Average Month Ratio (e)
11,546,521	962,210	999,663	1.04

a. The typical diurnal water production coefficient is based on a system with less than 5 percent water losses. The GWA water leaks are estimated at 20 percent.

b. The GWA system leaks are steady 24/7.

e. The maximum month to Average Month Ratio is called the coincidental Maximum Month capacity factor, and is based on the variance on deep well production to total annual deep well production.

Appendix 1M Table 6
Budget Escalation in FY 2005-06

Prior Fiscal Year Budget	FY 2004-05 Budget	FY 2005-06 Budget	Increase
Salaries and Wages (excluding Supplemental Annuities)	\$12,485,205	\$15,839,464	31%
Supplemental Annuities Surcharge		\$525,000	na
Administrative & General (Other O&M, b)	\$4,020,445	\$5,444,712	35%
Contractual (a)	\$1,300,628	\$5,446,561	319%
Purchased Power	\$8,745,015	\$11,485,000	31%
Purchased Water	\$6,297,774	\$4,326,930	-31%
Total Recurring Operating Costs		\$43,067,667	31%
Reduction in FY 2005-06 Budget from Unfilled Vacant Positions & Salary Increments		(\$1,208,000)	
One-time Insurance Claims		\$1,000,000	
Subtotal	\$32,849,067	\$42,859,667	
Depreciation (non-cash expense)		\$9,300,000	
Grand Total		\$52,159,667	

a. Contractual expenses also include rental, legal and support services, repair charges, and miscellaneous costs.

b. Other O&M expenses include all minor costs, bad debt and CAPEX miscellaneous capital expenditures not itemized in the other key expense categories.

Appendix 1M Table 7
 FY 2004-05 Utility Bills

Customer Classification	Calculated Bills (excluding surcharges)			Recorded Revenues
	Water	Sewer	Total	
Agricultural	\$289,492	\$0	\$289,492	\$305,478
Golf Course	\$122,030	\$0	\$122,030	\$138,196
Commercial I (C)	\$3,666,957	\$968,521	\$4,635,478	\$4,901,048
Commercial II (D)	\$586,084	(\$146,827)	\$439,257	\$1,299,058
Commercial III (E)	\$662,371	\$894,555	\$1,556,927	\$1,702,338
Federal	\$8,994	\$2,376,383	\$2,385,377	\$2,376,383 (est)
Guam Government	\$1,872,109	\$983,508	\$2,855,616	\$2,477,164
ST Government	\$1,881,103	\$3,359,891	\$5,240,994	\$4,853,548
Hotel (H, II)	\$3,871,842	\$4,044,537	\$7,916,380	\$7,900,686
Irrigation	\$95,682	\$0	\$95,682	\$108,317
Residential	\$16,262,315	\$5,382,696	\$21,645,011	\$21,081,758
Total	\$27,437,876	\$14,503,374	\$41,941,250	\$42,290,426

Appendix 1M Table 8
 FY 2005-06 Estimated Water & Sewer Bills

Customer Classification	Annual Charges		Subtotal	Percent	Surcharges (a)			Total Charges	Charge Allocations			AR or 120+
	Water	Sewer			PUC	Legislature	Total		Water	Sewer	Total	
FY 2004-05 Water & Sewer Bills												
Fixed Charges	\$3,543,151	\$5,331,480	\$8,874,631									
Lifeline Water Use	\$914,264		\$914,264									
All Other Water Use	\$22,980,661	\$9,075,303	\$32,055,964									
Total	\$27,438,076	\$14,406,783	\$41,844,859	10%	\$3,385,476	\$922,017	\$4,307,493	\$46,152,352				
FY 2005-06 Water & Sewer Bills												
Agricultural	\$233,950	\$0	\$233,950	13.6%	\$22,249	\$9,662	\$31,911	\$265,860	1%	0%	1%	\$
Golf Course	\$80,750	\$0	\$80,750	13.6%	\$7,679	\$3,335	\$11,014	\$91,764	0.3%	0%	0%	
Commercial (C) I	\$4,040,438	\$1,127,671	\$5,168,109	13.6%	\$491,487	\$213,443	\$704,930	\$5,873,039	14%	7%	12%	\$1.5
Commercial (D) II	\$708,389	\$486,612	\$1,195,001	13.6%	\$113,645	\$49,354	\$162,998	\$1,357,999	2%	3%	3%	\$
Commercial (E) III	\$719,994	\$1,039,854	\$1,759,848	13.6%	\$167,362	\$72,682	\$240,043	\$1,999,891	2%	7%	4%	\$1
Federal	\$19,171	\$2,273,273	\$2,292,444	13.6%	\$218,011	\$94,678	\$312,689	\$2,605,133	0.1%	15%	5%	
Guam Government	\$2,194,499	\$1,075,238	\$3,269,738	13.6%	\$310,952	\$135,040	\$445,992	\$3,715,730	8%	7%	7%	
ST Government	\$2,213,671	\$3,348,511	\$5,562,182		\$528,963	\$229,718	\$758,682	\$6,320,863	8%	22%	13%	\$1,0
Hotel (H) II	\$3,886,448	\$4,044,537	\$7,930,985	13.6%	\$754,237	\$327,550	\$1,081,786	\$9,012,771	13%	26%	18%	
Irrigation	\$134,353	\$0	\$134,353	13.6%	\$12,777	\$5,549	\$18,326	\$152,679	0.5%	0%	0%	\$
Residential	\$17,386,963	\$5,435,496	\$22,822,459	9.8%	\$1,566,554	\$680,322	\$2,246,876	\$25,069,335	58%	34%	50%	\$4,3
Total	\$29,404,954	\$15,482,682	\$44,887,636		\$3,664,952	\$1,591,614	\$5,256,566	\$50,144,202	100%	100%	100%	\$7,3
	66%	34%	100%									

These Charges are based on a full year of revenues collected at the rates that were effective 2/1/06. The impact of only one half year of revenues at the current rates is a reduction of 1.5 percent. The estimated nonpayment of these bills is set at 5 percent, resulting in a significant reduction in actual revenues.

a. Surcharges include the Public Utilities Surcharge from 2001 (9.5%) and the Supplemental Annuity to the Legislature (4.1% in 2006).

Source: DP raw data, with adjustments.

Appendix 1M Table 9
Wastewater Charges and Current Accounts

Customer Classification	FY 2004-05 Bill Calculations				FY 2005-06 Bill Calculations		
	Sewer Accounts	Discharge (Kgals)	Unit Rates (\$/Kgal & Flat Rate for Res)	Calculated Bills (excluding surcharge)	Discharge (Kgals)	Unit Rates (\$/Kgal & Flat Rate for Res)	Calculated Bills (excluding surcharge)
Commercial I (C) Regular Strength	1,699	442,247	\$2.19	\$968,521	490,292	\$2.30	\$1,1
Comm II (D/H) Hotels & Ind. Laundry	84	728,544	\$5.35	\$3,897,710	807,691	\$5.61	\$4,5
Commercial III (E) High Strength	188	120,560	\$7.42	\$894,555	133,657	\$7.78	\$1,0
Total Commercial	1,971	1,291,351		\$5,760,787	1,431,641		\$6,6
Navy and Airforce (Federal)	9	756,810	\$3.14	\$2,376,383	690,964	\$3.29	\$2,2
Government	312	313,219	\$3.14	\$983,508	326,820	\$3.29	\$1,0
Residential	20,389	2,444,554	\$22.00	\$5,382,696	2,242,548	\$22.00	\$5,4
Total	22,681	4,805,934		\$14,503,374	4,691,973		\$15,4

Appendix 1M Table 10
 Alt System Development Charge -- Buy-in Plus Expansion Costs

Description	Sewer Utility	Water Utility	Grand Total
Future CIP for Watershed Protection & Sewering Expansion (d)	\$0	\$14,703,544	\$14,703,544
Less Estimated Debt-funded Portion of Expansion Costs (2007-2012, e)	\$0	\$0	\$0
Current Book Value of Utility Assets (OCLD, 2006)	\$110,549,514	\$143,868,703	\$254,418,217
Total Future Value of Water Utility	\$110,549,514	\$158,572,246	\$269,121,761
Projected Equivalent Dwelling Units & Meters in Utility System (b)	52,785	58,800	
System Development Charge per 3/4" Residential Meter (a)	\$2,094	\$2,697	\$4,791

System Development Charge for Other Connections (based on water meter size)	Sewer (based on equivalent Water Meter Size, c)	Water (based on water meter size)
1"	\$3,491	\$4,495
1 1/2"	\$6,981	\$8,989
2"	\$11,170	\$14,383
3"	\$22,340	\$28,766
Above 3" water meter	Negotiated based on calculated demands and loads	

Current System Development Charge (aka Direct Service Authorized by GWA)

Residential (3/4" water meter accounts)	\$50	\$60	\$110
Non-residential			
1" Meter	at cost	\$60	
1 1/2"	at cost	\$70	
2"	at cost	\$120	
3"	at cost	\$180	
4"	at cost	\$240	
6"	at cost	\$360	
8"	at cost	\$480	
10"	at cost	\$600	
12"	at cost	\$720	

- These unit System Development Charge will increase annually by the principal portion of the debt paid by GWA.
- The projected build out Equivalent Dwelling Units & Meters in Utility System equals the year 2010 numbers plus a growth of 1 percent through the year 2025.
- For sewer service connections, the System Development Charge is based on the equivalent water meter sized for indoor water use, and excludes fixtures not drained to the sewer.
- Only the next five years of projected capital expenditures are incorporated into system development charges.
- The expansion-related costs are presumed to be funded solely from system development charge proceeds.

**Appendix 1M Table 11
Fixed Asset Details**

Asset Type Description	Original Asset Cost (\$)			Gen. Asset Allocat (a)	Original Asset Cost (\$)			2006 Replacement Costs (\$)		
	General Assets	Sewer Assets	Water Assets		Total Sewer Assets	Total Water Assets	Grand Total	Total Sewer Assets	Total Water Assets	Grand Total
Collection Sewer Force	\$0	\$6,480,591	\$0	Not Applic.	\$6,480,591	\$0	\$6,480,591	\$13,742,791	\$0	\$13,742,791
Collection Sewer Gravity	\$0	\$75,107,485	\$0	Not Applic.	\$75,107,485	\$0	\$75,107,485	\$288,191,182	\$0	\$288,191,182
Communication Equipment	\$3,072,916	\$0	\$0	Facility	\$1,425,307	\$1,647,609	\$3,072,916	\$2,287,494	\$2,644,268	\$4,931,762
Dist. Res. & Standpipe	\$0	\$0	\$19,604,526	Not Applic.	\$0	\$19,604,526	\$19,604,526	\$0	\$34,972,439	\$34,972,439
Hydrants & TD	\$0	\$0	\$6,623,815	Not Applic.	\$0	\$6,623,815	\$6,623,815	\$0	\$12,547,991	\$12,547,991
Laboratory Equipment	\$36,370	\$0	\$0	Equivalent	\$13,714	\$22,656	\$36,370	\$20,810	\$34,377	\$55,187
Lake, River	\$0	\$0	\$3,200,000	Not Applic.	\$0	\$3,200,000	\$3,200,000	\$0	\$4,722,610	\$4,722,610
Meter & Inst.	\$0	\$0	\$11,905,496	Not Applic.	\$0	\$11,905,496	\$11,905,496	\$0	\$16,910,547	\$16,910,547
Misc. Equipment	\$0	\$30,808	\$4,500	Not Applic.	\$30,808	\$4,500	\$35,308	\$46,566	\$5,456	\$52,022
Office Furniture	\$4,608,986	\$0	\$0	Equivalent	\$1,737,945	\$2,871,041	\$4,608,986	\$2,192,588	\$3,622,099	\$5,814,686
Office Furniture GP	\$32,845	\$0	\$0	Equivalent	\$12,385	\$20,460	\$32,845	\$15,514	\$25,628	\$41,142
Outfall Sewer	\$0	\$11,166,482	\$0	Not Applic.	\$11,166,482	\$0	\$11,166,482	\$24,027,995	\$0	\$24,027,995
Power Equipment	\$930,305	\$328,164	\$509,623	Facility	\$431,502	\$1,336,590	\$1,768,092	\$776,919	\$2,052,435	\$2,829,354
Power Gen. Equipment	\$0	\$2,344,626	\$0	Not Applic.	\$2,344,626	\$0	\$2,344,626	\$4,145,766	\$0	\$4,145,766
Power Gen. Equipment	\$0	\$0	\$1,620,876	Not Applic.	\$0	\$1,620,876	\$1,620,876	\$0	\$2,331,969	\$2,331,969
Power operated Equipment	\$41,494	\$0	\$0	Facility	\$19,246	\$22,248	\$41,494	\$22,054	\$25,494	\$47,549
Pumping Equipment	\$0	\$38,014,796	\$4,324,872	Not Applic.	\$38,014,796	\$4,324,872	\$42,339,668	\$57,900,230	\$6,486,303	\$64,386,533
Pumping Equipment TD	\$0	\$0	\$633,445	Not Applic.	\$0	\$633,445	\$633,445	\$0	\$756,398	\$756,398
Pumping Equipment WTP	\$0	\$0	\$393,016	Not Applic.	\$0	\$393,016	\$393,016	\$0	\$445,114	\$445,114
S&I SPP	\$0	\$83,600	\$0	Not Applic.	\$83,600	\$0	\$83,600	\$104,581	\$0	\$104,581
S&I TD	\$0	\$1,288,504	\$0	Not Applic.	\$1,288,504	\$0	\$1,288,504	\$1,501,576	\$0	\$1,501,576
Service to customer	\$0	\$10,638,193	\$0	Not Applic.	\$10,638,193	\$0	\$10,638,193	\$38,593,779	\$0	\$38,593,779
Stores Equipment	\$1,386,493	\$0	\$0	Facility	\$643,096	\$743,397	\$1,386,493	\$1,095,207	\$1,266,024	\$2,361,231
Struct. & Imp. - GP	\$0	\$0	\$6,282,096	Not Applic.	\$0	\$6,282,096	\$6,282,096	\$0	\$11,241,816	\$11,241,816
Struct. & Imp. - SSPP	\$0	\$0	\$7,351,498	Not Applic.	\$0	\$7,351,498	\$7,351,498	\$0	\$11,153,696	\$11,153,696
Structs & Improvements	\$0	\$21,527,228	\$0	Not Applic.	\$21,527,228	\$0	\$21,527,228	\$47,430,304	\$0	\$47,430,304
TD Equipment	\$0	\$5,855,934	\$0	Not Applic.	\$5,855,934	\$0	\$5,855,934	\$14,657,519	\$0	\$14,657,519
TD Mains	\$0	\$0	\$106,249,262	Not Applic.	\$0	\$106,249,262	\$106,249,262	\$0	\$243,283,530	\$243,283,530
TD Services	\$0	\$0	\$12,893,487	Not Applic.	\$0	\$12,893,487	\$12,893,487	\$0	\$25,053,956	\$25,053,956
Tools Shop & Garage	\$992,328	\$35,944	\$549,141	Facility	\$460,270	\$1,117,143	\$1,577,413	\$640,736	\$1,490,098	\$2,130,834
Transport Equipment GP	\$664,237	\$0	\$0	Facility	\$308,092	\$356,145	\$664,237	\$375,055	\$433,551	\$808,605
Transports & Equipment	\$3,662,773	\$0	\$0	Facility	\$1,698,900	\$1,963,873	\$3,662,773	\$2,507,786	\$2,898,919	\$5,406,704
Water Treatment	\$0	\$0	\$3,108,461	Not Applic.	\$0	\$3,108,461	\$3,108,461	\$0	\$4,553,191	\$4,553,191
Wells & Springs	\$0	\$0	\$14,615,381	Not Applic.	\$0	\$14,615,381	\$14,615,381	\$0	\$25,926,105	\$25,926,105
Grand Total	\$15,428,747	\$172,902,355	\$199,869,495		\$179,288,706	\$208,911,891	\$388,200,597	\$500,276,451	\$414,884,014	\$915,160,465
							Share to Sewer			
					Fac. Original Value-based Allocation (Facility)	\$172,902,355	\$199,869,495	46%		
					2005 Customer Acct-based Allocation (Equivalent)	22,892	37,817	38%		

OCLD: Original Cost Less Depreciation. RCNLD: Replacement Cost New Less Depreciation

a. The general purpose facilities are allocated to both water and sewer utilities to identify the systemwide share of assets.

**Appendix 1M Table 11
Fixed Asset Details**

Asset Type Description	2006 RCNLD (\$)			2006 OCLD (\$)			Annual Depreciation (Org. Cost/year)		
	Total Sewer Assets	Total Water Assets	Grand Total	Total Sewer Assets	Total Water Assets	Grand Total	Total Sewer Assets	Total Water Assets	GT Org. Cost
Collection Sewer Force	\$9,569,184	\$0	\$9,569,184	\$4,879,767	\$0	\$4,879,767	\$86,635	\$0	\$86,635
Collection Sewer Gravity	\$154,401,316	\$0	\$154,401,316	\$45,963,128	\$0	\$45,963,128	\$1,105,532	\$0	\$1,105,532
Communication Equipment	\$424,408	\$490,601	\$915,009	\$265,225	\$306,591	\$571,816	\$89,451	\$103,402	\$192,853
Dist. Res. & Standpipe	\$0	\$22,998,822	\$22,998,822	\$0	\$13,852,108	\$13,852,108	\$0	\$408,898	\$408,898
Hydrants & TD	\$0	\$4,716,512	\$4,716,512	\$0	\$3,196,009	\$3,196,009	\$0	\$220,794	\$220,794
Laboratory Equipment	\$1,265	\$2,089	\$3,354	\$989	\$1,634	\$2,624	\$1,570	\$2,593	\$4,163
Lake, River	\$0	\$3,904,025	\$3,904,025	\$0	\$2,645,333	\$2,645,333	\$0	\$42,667	\$42,667
Meter & Inst.	\$0	\$9,179,531	\$9,179,531	\$0	\$6,584,186	\$6,584,186	\$0	\$471,204	\$471,204
Misc. Equipment	\$2,065	\$5,001	\$7,066	\$1,590	\$4,125	\$5,715	\$2,948	\$75	\$3,023
Office Furniture	\$741,674	\$1,225,226	\$1,966,900	\$613,955	\$1,014,239	\$1,628,194	\$211,007	\$348,578	\$559,584
Office Furniture GP	\$7,220	\$11,928	\$19,148	\$5,767	\$9,526	\$15,293	\$1,023	\$1,690	\$2,713
Outfall Sewer	\$16,651,078	\$0	\$16,651,078	\$8,883,979	\$0	\$8,883,979	\$149,445	\$0	\$149,445
Power Equipment	\$15,309	\$466,945	\$482,254	\$10,994	\$354,388	\$365,381	\$42,224	\$101,388	\$143,612
Power Gen. Equipment	\$2,686,632	\$0	\$2,686,632	\$1,598,628	\$0	\$1,598,628	\$44,722	\$0	\$44,722
Power Gen. Equipment	\$0	\$1,527,969	\$1,527,969	\$0	\$1,067,384	\$1,067,384	\$0	\$46,311	\$46,311
Power operated Equipment	\$14,262	\$16,486	\$30,748	\$12,763	\$14,754	\$27,516	\$1,612	\$1,863	\$3,474
Pumping Equipment	\$30,946,574	\$2,608,259	\$33,554,833	\$25,310,986	\$2,045,785	\$27,356,771	\$1,211,456	\$201,718	\$1,413,173
Pumping Equipment TD	\$0	\$620,232	\$620,232	\$0	\$520,564	\$520,564	\$0	\$24,681	\$24,681
Pumping Equipment WTP	\$0	\$386,890	\$386,890	\$0	\$342,969	\$342,969	\$0	\$16,226	\$16,226
S&I SPP	\$77,455	\$0	\$77,455	\$62,033	\$0	\$62,033	\$3,308	\$0	\$3,308
S&I TD	\$1,336,223	\$0	\$1,336,223	\$1,150,446	\$0	\$1,150,446	\$32,900	\$0	\$32,900
Service to customer	\$22,082,050	\$0	\$22,082,050	\$6,729,648	\$0	\$6,729,648	\$142,640	\$0	\$142,640
Stores Equipment	\$8,127	\$9,395	\$17,522	\$6,465	\$7,473	\$13,938	\$63,917	\$73,886	\$137,803
Struct. & Imp. - GP	\$0	\$6,518,922	\$6,518,922	\$0	\$4,245,297	\$4,245,297	\$0	\$172,106	\$172,106
Struct. & Imp. - SSPP	\$0	\$8,018,544	\$8,018,544	\$0	\$5,386,487	\$5,386,487	\$0	\$155,103	\$155,103
Structs & Improvements	\$23,345,249	\$0	\$23,345,249	\$11,440,516	\$0	\$11,440,516	\$546,575	\$0	\$546,575
TD Equipment	\$6,571,593	\$0	\$6,571,593	\$2,837,643	\$0	\$2,837,643	\$127,409	\$0	\$127,409
TD Mains	\$0	\$159,111,293	\$159,111,293	\$0	\$78,670,597	\$78,670,597	\$0	\$1,545,572	\$1,545,572
TD Services	\$0	\$18,033,832	\$18,033,832	\$0	\$10,020,169	\$10,020,169	\$0	\$199,039	\$199,039
Tools Shop & Garage	\$309,121	\$933,003	\$1,242,123	\$232,303	\$719,989	\$952,292	\$28,086	\$50,384	\$78,471
Transport Equipment GP	\$185,197	\$214,082	\$399,279	\$152,319	\$176,076	\$328,395	\$30,066	\$34,755	\$64,822
Transports & Equipment	\$366,590	\$423,767	\$790,357	\$301,808	\$348,880	\$650,688	\$169,890	\$196,387	\$366,277
Water Treatment	\$0	\$1,667,601	\$1,667,601	\$0	\$1,150,517	\$1,150,517	\$0	\$152,654	\$152,654
Wells & Springs	\$0	\$17,825,518	\$17,825,518	\$0	\$11,272,185	\$11,272,185	\$0	\$264,983	\$264,983
Grand Total	\$269,742,591	\$260,916,472	\$530,659,064	\$110,460,951	\$143,957,266	\$254,418,217	\$4,092,416	\$4,836,956	\$8,929,372

Appendix 1M Table 11
Fixed Asset Details

Asset Type Description	Annual Depreciation (Repl Cost/year)			Avg Book Svc Life & Age (excd assets >2% of system RC)									
	Total Sewer Assets	Total Water Assets	Grand Total Replacement Cost	Wastewater System				Water System					
				Life	Age	Avg Deprc	Value (RC)	Life	Age	Avg Deprc	Value (RC)		
Collection Sewer Force	\$183,574	\$0	\$183,574	75	1981	33%	3%						
Collection Sewer Gravity	\$4,105,550	\$0	\$4,105,550	68	1973	49%	58%						
Communication Equipment	\$143,226	\$165,564	\$308,790				0%						1%
Dist. Res. & Standpipe	\$0	\$694,603	\$694,603					48	1986	42%			8%
Hydrants & TD	\$0	\$418,266	\$418,266					30	1982	80%			3%
Laboratory Equipment	\$2,405	\$3,973	\$6,379				0%						0%
Lake, River	\$0	\$62,968	\$62,968										1%
Meter & Inst.	\$0	\$670,233	\$670,233					25	1994	47%			4%
Misc. Equipment	\$4,485	\$91	\$4,575				0%						0%
Office Furniture	\$266,088	\$439,570	\$705,658				0%						1%
Office Furniture GP	\$1,280	\$2,115	\$3,395				0%						0%
Outfall Sewer	\$321,015	\$0	\$321,015	75	1981	33%	5%						
Power Equipment	\$76,282	\$162,517	\$238,799	10			0%						0%
Power Gen. Equipment	\$80,252	\$0	\$80,252	52			1%						
Power Gen. Equipment	\$0	\$66,628	\$66,628										1%
Power operated Equipment	\$1,867	\$2,158	\$4,025				0%						0%
Pumping Equipment	\$2,073,322	\$306,583	\$2,379,905	31	1992	45%	12%	21	1992	65%			2%
Pumping Equipment TD	\$0	\$29,516	\$29,516										0%
Pumping Equipment WTP	\$0	\$18,267	\$18,267										0%
S&I SPP	\$4,151	\$0	\$4,151				0%						
S&I TD	\$38,936	\$0	\$38,936				0%						
Service to customer	\$515,675	\$0	\$515,675	75	1974	43%	8%						
Stores Equipment	\$109,026	\$126,031	\$235,057				0%						0%
Struct. & Imp. - GP	\$0	\$297,472	\$297,472					37	1986	55%			3%
Struct. & Imp. - SSPP	\$0	\$232,612	\$232,612					47	1992	30%			3%
Structs & Improvements	\$1,110,318	\$0	\$1,110,318	39	1980	66%	9%						
TD Equipment	\$326,631	\$0	\$326,631	46	1979	59%	3%						
TD Mains	\$0	\$3,459,285	\$3,459,285					69	1980	38%			59%
TD Services	\$0	\$366,636	\$366,636					65	1982	37%			6%
Tools Shop & Garage	\$38,716	\$68,040	\$106,756				0%						0%
Transport Equipment GP	\$36,596	\$42,304	\$78,899				0%						0%
Transports & Equipment	\$250,779	\$289,892	\$540,670	10			1%						1%
Water Treatment	\$0	\$224,405	\$224,405										1%
Wells & Springs	\$0	\$457,812	\$457,812					55	1986	36%			6%
Grand Total	\$9,690,174	\$8,607,541	\$18,297,715	44	1977	66%	100%	43	1982	56%			100%

Appendix 1M Table 12

Annual Depreciation Based on Asset Replacement Cost New

Existing Fixed Asset Type	2006 Replacement Cost New Annual Depreciation		Grand Total
	Total Sewer Assets	Total Water Assets	
Collection Sewer Gravity	\$4,105,550	\$0	\$4,105,550
Pumping Equipment	\$2,073,322	\$306,583	\$2,379,905
Structures & Improvements	\$1,110,318	\$0	\$1,110,318
Services	\$515,675	\$0	\$515,675
Office Furniture	\$384,745	\$320,913	\$705,658
TD Equipment	\$326,631	\$0	\$326,631
Outfall Sewer	\$321,015	\$0	\$321,015
Transports & Equipment	\$294,789	\$245,882	\$540,670
Collection Sewer Force	\$183,574	\$0	\$183,574
Communication Equipment	\$168,361	\$140,429	\$308,790
Power Equipment	\$137,397	\$101,402	\$238,799
Stores Equipment	\$128,160	\$106,897	\$235,057
TD Mains	\$0	\$3,459,285	\$3,459,285
Dist. Res. & Standpipe	\$0	\$694,603	\$694,603
Meter & Inst.	\$0	\$670,233	\$670,233
Wells & Springs	\$0	\$457,812	\$457,812
Hydrants & TD	\$0	\$418,266	\$418,266
TD Services	\$0	\$366,636	\$366,636
Struct. & Imp. - GP	\$0	\$297,472	\$297,472
Struct. & Imp. - SSPP	\$0	\$232,612	\$232,612
Water Treatment	\$0	\$224,405	\$224,405
Power Gen. Equipment	\$0	\$66,628	\$66,628
Lake, River	\$0	\$62,968	\$62,968
Pumping Eqpt. TD	\$0	\$29,516	\$29,516
Pumping Eqpt. WTP	\$0	\$18,267	\$18,267
Other Assets	\$226,899	\$100,470	\$327,369
Total Annual Depreciation (RCN)	\$9,976,435	\$8,321,280	\$18,297,715
Asset Functional Categories			
Production & Treatment	\$2,476,894	\$2,632,478	\$5,109,373
Collection & Distribution	\$7,499,541	\$5,688,802	\$13,188,342
Total	\$9,976,435	\$8,321,280	\$18,297,715

Appendix 1M Table 13
 Typical Sewage Strengths by Customer Classification

User Description	GWA Classification	SIC Code	BOD (ppm)	SS (ppm)	Average Strength (ppm)	Reference Strength (a)
Soft Water Service	Commercial I (C. regular strength)	72	3	55	29	SWRCB
Car Wash (Tunnel Area, with Recycling)	Commercial I (C. regular strength)	75	20	150	85	SWRCB
Professional Offices	Commercial I (C. regular strength)	89	130	80	105	SWRCB
School: Day Care, Elementary & Junior High	Commercial I (C. regular strength)	82	130	100	115	SWRCB
School: High	Commercial I (C. regular strength)	82	130	100	115	SWRCB
School: University or College	Commercial I (C. regular strength)	82	130	100	115	SWRCB
School: Vocational	Commercial I (C. regular strength)	82	130	100	115	SWRCB
Laundromat, Public & Coin Operated	Commercial I (C. regular strength)	72	150	110	130	SWRCB
Grocery Market w/out Butcher or Baker	Commercial I (C. regular strength)	54	150	150	150	Comparable
Department and Retail Stores (No Restaurants)	Commercial I (C. regular strength)	59	150	150	150	SWRCB
Group I Low Strength Not Listed	Commercial I (C. regular strength)	varies	200	100	150	Comparable
Kennel		7	150	150	150	Los Angeles
Veterinarian		7	150	150	150	Comparable
Construction Service (Field Office)		15	150	150	150	Los Angeles
Machine Shop (Excluding Electrical)		35	150	150	150	Los Angeles
Storage, Outdoor		42	150	150	150	Comparable
Warehouse Storage, Indoor		42	150	150	150	Los Angeles
Wholesale Trade/Sales		50	150	150	150	Comparable
Apparel and Accessory Store		56	150	150	150	Los Angeles
Nursery or Greenhouse		59	150	150	150	Comparable
Shopping Center		59	150	150	150	SWRCB
Barber Shop		72	150	150	150	Los Angeles
Beauty Shop		72	150	150	150	Los Angeles
Massage Parlor		72	150	150	150	Los Angeles
Durable Goods - Wholesale Trade		50	150	150	150	Los Angeles
Bowling/Skating - Total Floor Area		79	150	150	150	Los Angeles
Motion Pictures/Theater/Auditorium		78	150	150	150	Los Angeles
Church		86	150	150	150	Los Angeles
Community Center (No Kitchen)		86	150	150	150	Los Angeles
Membership Organizations		86	150	150	150	Los Angeles
Health Services: Hospital	Commercial I (C. regular strength)	80	250	100	175	SWRCB
Health Services: Other/Outpatient	Commercial I (C. regular strength)	80	250	100	175	Comparable
Health Services: Psychiatric/Convalescent	Commercial I (C. regular strength)	80	250	100	175	Comparable
Bar or Night Club without Food	Commercial I (C. regular strength)	58	200	200	200	SWRCB
Dormitory or Boarding House	Residential	70	200	200	200	SWRCB
Military	Federal	88	230	100	165	GWA Mass Balance
Multi-Family Apt or Condo	Residential	88	230	160	195	SWRCB, w/ GWA Adj
Single Family Residential	Residential	88	190	120	155	GWA Mass Balance
Restaurant: Preprocessed Food		58	200	200	200	Los Angeles
Social Services		83	200	200	200	SWRCB
Hotel, Motel or Lodging (Excd Dining)	Commercial II (D. hotels & laundry)	70	310	120	215	SWRCB
Prison with Food Services		70	310	120	215	Los Angeles
Medical Lab		80	331	151	241	Los Angeles
Laboratory, Analytical		80	339	151	245	Los Angeles
Repair Station, Automobile	Commercial I (C. regular strength)	75	280	280	280	SWRCB
Service Station, Automobile	Commercial I (C. regular strength)	55	280	280	280	SWRCB
Agricultural/Landscaping Service		7	300	300	300	Estimate
Laundromat, Commercial & Dry Cleaning	Commercial II (D. hotels & laundry)	72	450	240	345	SWRCB
Hotel, Motel or Lodging (with Dining)	Commercial II (D. hotels & laundry)	70	310	400	355	SWRCB
Mall (with Food Services)		53	400	400	400	Los Angeles
Manufacturing, Miscellaneous		39	405	420	413	Burbank
Water Supply Service		49	290	550	420	Los Angeles
Bar or Night Club with Food		58	600	400	500	SWRCB - Bars
Laundry, Industrial (Contract Services)	Commercial II (D. hotels & laundry)	72	670	680	675	SWRCB
Group III High Strength Not Listed	Commercial III (E. high strength)	varies	1,000	600	800	Estimate
Mortuary	Commercial III (E. high strength)	72	800	600	700	SWRCB
Bakery - Manufacturing	Commercial III (E. high strength)	20	1,000	600	800	SWRCB
Supermarket (Grocery) with Butcher or Baker	Commercial III (E. high strength)	54	800	800	800	SWRCB
Bakery, Retail	Commercial III (E. high strength)	54	800	800	800	SWRCB
Restaurant or Deli: Take-out/Fast Food	Commercial III (E. high strength)	58	1,000	600	800	SWRCB
Restaurant, Full Service	Commercial III (E. high strength)	58	1,000	600	800	SWRCB
Restaurant: Coffee/Donut Shop	Commercial III (E. high strength)	58	1,000	600	800	SWRCB
Food Product Manufacturing (Industrial)		20	2,213	1,453	1,833	Los Angeles
Septage		49	5,400	12,000	8,700	SWRCB

(a) Estimated values are used when discharge characteristics for a user are unavailable; values labeled comparable are based on similar user classes.

Appendix 1M Table 14
Sensitivity Analysis: Future Costs Versus Projected Bills

Description	30% Reduction	10% Reduction	Base Case Values	10% Increase	30% Increase
Increase in Residential Bill -- Annual Increase Versus 2011 Monthly Bill (a)					
Cause: Average Annual Increase in Unit Rates	0%	6%	8%	11%	13%
Effect: Monthly Residential Bill in 2011 (Alt. 1)	\$62	\$76	\$84	\$97	\$114
CIP Expenditures					
	Min. Pace				
Cause: Five-Year CIP (\$ Million, 2007 dollars)	\$145	\$187	\$208	\$229	\$270
Effect: Monthly Residential Bill in 2011 (Alt. 1)	\$74	\$80	\$84	\$88	\$92
System Development Charges					
Cause: Combined Water & Sewer Hook-up Fee	\$6,687	\$8,597	\$9,553	\$10,508	\$12,419
Effect: Monthly Residential Bill in 2011 (Alt. 1)	\$86	\$85	\$84	\$83	\$82
Inflation on O&M Costs					
Cause: Annual Inflation Level	4%	5%	6%	7.0%	8.0%
Effect: Monthly Residential Bill in 2011 (Alt. 1)	\$80	\$82	\$84	\$85	\$86
Customer Utility Bills Collections in 2011 (steady improvement from 5% non-payment in 2006)					
Cause: 2011 Non-payment Level in 2011	4%	3%	2%	1%	0%
Effect: Monthly Residential Bill in 2011 (Alt. 1)	\$86	\$85	\$84	\$83	\$81
Water Sales in 2011					
Cause: Total Water Sales (Million Kgal/year)	6.0	7.0	7.8	9.0	10.0
Effect: Monthly Residential Bill in 2011 (Alt. 1)	\$93	\$88	\$84	\$83	\$82
Bond Interest Rate					
Cause: Borrowing Rate	4.0%	5.0%	6.0%	7.0%	8.0%
Effect: Monthly Residential Bill in 2011 (Alt. 1)	\$76	\$80	\$84	\$86	\$88

a. The average annual increase in bills with no increase in unit rates is a result of the increased meter reads from the meter replacement program. Projected bills are based on current rates. Surcharges cause changes in bills without rate adjustments.

Appendix 1M Table 15
Rates for a Phase-in from Current to Cost of Service Rates

Description	Current FY 2005-06	Mid Yr Adj. FY 2006-07	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11
Phase-in of Cost of Service Alternative 5 Rates						
Alternative 1 Current Rate Structure	100%	80%	60%	40%	20%	0%
Alternative 3 Cost of Service Rates	0%	20%	40%	60%	80%	100%
Water Customer Unit Rates						
1. Customer Service Charge (\$/month-account)						
Water Accounts	\$0	\$4.58	\$9.90	\$15.61	\$21.76	\$28.32
2. Water Meter Service Charge (\$/month-meter, by size)						
3/4"	\$7.46	\$9.19	\$10.27	\$11.15	\$12.04	\$12.93
1"	\$8.71	\$11.77	\$14.24	\$16.58	\$19.01	\$21.55
1 1/2"	\$13.67	\$19.97	\$25.59	\$31.13	\$36.97	\$43.09
2"	\$17.41	\$27.72	\$37.51	\$47.40	\$57.89	\$68.95
3"	\$31.09	\$51.88	\$72.15	\$92.78	\$115	\$138
4"	\$43.52	\$76	\$109	\$142	\$178	\$215
6"	\$80.82	\$147	\$213	\$281	\$354	\$431
8"	\$118.13	\$224	\$332	\$444	\$563	\$689
10"	\$161.65	\$314	\$471	\$634	\$807	\$991
3. Water Consumption Charges (\$/Kgal)						
Agricultural	\$1.47	\$1.57	\$1.50	\$1.37	\$1.22	\$1.05
Golf Course	\$4.42	\$5.39	\$5.95	\$6.39	\$6.83	\$7.27
Irrigation	\$1.47	\$2.59	\$3.67	\$4.80	\$6.00	\$7.27
Commercial & Government	\$4.42	\$5.14	\$5.41	\$5.55	\$5.66	\$5.75
Residential	\$3.44	\$3.85	\$3.88	\$3.79	\$3.66	\$3.50
4. Surcharge on all Bills (applicable to all elements of the bill, including lifeline customers)						
Public Utilities & SAR Surcharge	6.7%	3.7%	3.7%	2.5%	1.2%	0.0%
Wastewater Customer Unit Rates						
1 & 2. Cust. Svc Charge (\$/month-acct)	\$0	\$4.58	\$9.90	\$15.61	\$21.76	\$28.32
3. Wastewater Charge (\$/Kgal of Metered Water Use)						
Commercial I (C) Low Strength	\$1.92	\$2.40	\$2.72	\$2.99	\$3.27	\$3.56
Commercial II (D/H) Hotels	\$4.68	\$5.30	\$5.43	\$5.40	\$5.34	\$5.23
Commercial III (E) High Strength	\$6.48	\$7.28	\$7.38	\$7.26	\$7.07	\$6.81
Ed & Comm Cov	\$2.74	\$2.40	\$2.25	\$2.44	\$2.54	\$2.56

Appendix 1M Table 16
 Projected Bills for a Phase-in of Cost of Service Rates

Description	After Adj.					
	FY 2005-06	FY 2006-07	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11
Proj Typical Res Water Use (Kgal/month)	8	9	9	9	9	9
Annual Increase in Unit Rates		8%	8%	8%	8%	8%
Typical Monthly Residential Charge for Regular Customer (water & sewer services)						
Customer & Meter Service Chg, 3/4 inch)	\$7.46	\$13.77	\$20.16	\$26.76	\$33.80	\$41.24
Water Usage Rates	\$12.00	\$34.68	\$34.93	\$34.12	\$32.98	\$31.52
Water Usage (over 5 Kgal/month)	\$10.65	na	na	na	na	na
Wastewater Customer Charges	\$22.00	\$4.58	\$9.90	\$15.61	\$21.76	\$28.32
Wastewater Variable Charges		\$25.04	\$24.83	\$23.50	\$22.16	\$20.94
Surcharges	\$2.47	\$2.89	\$3.32	\$2.53	\$1.35	\$0.00
Total Monthly Bill	\$55	\$81	\$93	\$103	\$112	\$122
Bill Increase (including increased water metering)		48%	15%	10%	9%	9%
Average Annual Bill Increase Over Five Years (including increased water metering)						17%

Summary Bills of Key Customers

Residential	\$55	\$81	\$93	\$103	\$112	\$122
Golf Course		\$376	\$525	\$700	\$899	\$1,126
Commercial C Accounts		\$192	\$214	\$241	\$269	\$301
Typical Hotels		\$10,118	\$10,507	\$10,936	\$11,376	\$11,825
Large Hotels		\$55,808	\$57,058	\$58,828	\$60,399	\$61,929

All qualifying lifeline customers pay part or none of the customer service charge. The volumetric-based charges are billed at the full rate.