

### Updated Water and Wastewater Capital Facilities Fees Report

April 2012

Prepared for El Toro Water District by



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Mike Grandy Assistant General Manager El Toro Water District 24251 Los Alisos Blvd. Lake Forest, CA 92630

Subject:

Updated Water and Wastewater Capital Facilities Fees Report

Dear Mr. Grandy:

Raftelis Financial Consultants (RFC) has prepared this *Updated Water and Wastewater Capital Facilities Fees Report* (Report) showing the capital facilities fees for water and wastewater customers of El Toro Water District (ETWD). This report is based on our prior report titled *El Toro Water District Water and Wastewater Capital Facilities Fees Report* dated October 28, 2008.

This Report presents the calculations of capital facilities fees for December 2007. These calculated fees are then updated to March 2011 using the Engineering News-Record (ENF) Construction Cost Index (CCI) for the Los Angeles area. The wastewater capital facilities fees for non-residential customers were based on the City of Los Angeles wastewater generation factors, modified for the District's usage characteristics.

We have provided this detailed analysis for your review. This Report summarizes the key findings and recommendations related to the water and wastewater capital facilities fees.

#### El Toro Water District

Water and Wastewater Capital Facilities Fee Report

#### Introduction

Capital facilities fees are the one-time capital charges that ETWD imposes on customers for new or expanded connections to the ETWD water and wastewater system facilities. The fees should generally reflect the estimated reasonable cost of providing additional or available system capacity to new development. The fees are also commonly referred to as impact fees, system development fees, developer fees, capacity fees or connection fees.

The ETWD currently assesses a one-time capital facilities fee for new users that request connection to the ETWD's wastewater system. The charges are intended to reflect the cost of wastewater system capacity that is required to provide service to new customers, or increased demand for wastewater system capacity that results from renovations and/or additions to existing establishments. Since ETWD currently does not have a water capital facilities fee, as part of this study, ETWD also requested RFC develop a water capital facilities fee to reflect the cost of water system capacity required to provide service to new water customers.

The current method of assessing the wastewater capital facilities fees to new customers consists of applying the cost per gallon per day (gpd) of system capacity to the estimated daily volume of sewage to be discharged into the system by a new user. The cost of system capacity under the current approach is \$4.75 per gpd. For residential dwelling units, the current capital facilities fee is \$1,190 based on an estimated daily sewage volume of 250 gpd.

The current wastewater capital facilities fee for commercial and industrial developments is determined based on the \$4.75 gpd cost of system capacity and the estimated daily volume of sewage to be discharged by each establishment within a development. The estimated daily volume of sewage discharged by an establishment is determined by ETWD using standard industry methods. These methods are based on number of fixture units for an establishment and the estimated flow rates per fixture unit for that establishment. The minimum capital facilities fee for any commercial or industrial establishment is \$1,190. Table 1 summarizes the current wastewater capital facilities fee program incorporated by the ETWD.

# TABLE 1 CURRENT WASTEWATER CAPITAL FACILITIES FEES

New Construction		Cost (gpd)	Daily Sewage (gpd)	Capital Facilities Fee
Residential Dwelling Unit		\$4.75	250	\$1,190
Commerical / Industrial				
Minimum Fee		\$4.75	250.00	\$1,190
Above Minimum Fee (Sample	e)	\$4.75	3,857	\$18,321
Sample Establishment Fixtures a	nd Sewage Est	<u>timate</u>		
Total Fixture Units			126	
a Flow Rate Per Fixture	Unit (gallons pe	er minute)	50	
Hours of Operation per W	'eek		90	
Total Hours Per Week		•	168	•
b Weighting Factor (% o	of use)		0.5357	
c Peaking Factor			10	
		0.5357	GPM	
Average Flow Rate =	50	10	2.679	
	GPM	Min/Day	GPD	
Average Daily Flow =	2.679	1,440	3,857	

#### Economic and Legal Framework for Capital Facilities Fees

In publicly owned water and wastewater systems, most of the assets are typically paid for by the contributions of existing customers through rates, charges, and taxes. In service areas that incorporate new customers, it is generally true that the infrastructure developed by previous customers is extended towards the service of new customers. It is the investment of existing customers in the existing system capacity, which allows newly connecting customers to take advantage of unused surplus capacity. In order to further economic equality among new and existing customers, new connectors will typically refund the value of the existing system capacity they use effectively putting them on par with existing customers.

#### **Economic Framework**

The basic economic philosophy behind capital facilities fees is that the costs of providing water and wastewater service should be paid for by those that receive utility from the product. Accordingly, many utilities make this one of their principal objectives when administering capital facilities fees. In order to achieve a fair distribution of the value of the system, the fee should reflect a reasonable estimate of the cost of providing capacity to new users, and not unduly burden existing users.

The philosophy that service should be paid for by those that receive utility from the product is often referred to as "growth-should-pay-for-growth." The principal is summarized in the American Water Works Association (AWWA) Manual M26, <u>Water Rates and Related Charges</u>:

"The purpose of designing customer-contributed-capital system charges is to prevent or reduce the inequity to existing customers that results when these customers must pay the increase in water rates that are needed to pay for added plant costs for new customers. Contributed capital reduces the need for new outside sources of capital, which ordinarily has been serviced from the revenue stream. Under a system of contributed capital, many water utilities are able to finance required facilities by use of a 'growth-pays-for-growth' policy."

In this excerpt, customer-contributed-capital is equivalent to capital facilities fee.

#### **Legal Framework**

RFC does not practice law and does not provide legal advice. The following discussion is to provide a general review of apparent state institutional constraints and is labeled "legal framework" for literary convenience only. The ETWD should consult with its counsel for clarification and/or specific review of any of the following or other matters.

The ETWD has broad authority to price water and wastewater capital facilities fees. The most salient limitation on this authority is reflected by the requirement that recovery costs on new development bear a reasonable relationship to the needs and benefits brought about by the development. Courts have long used a standard of reasonableness to evaluate the legality of capital facilities fees.

 Local agencies must follow a process set forth in the law, making certain determinations regarding the purpose and use of the fee; they must establish a nexus or relationship between a development project and the public improvement being financed with the fee.

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 The revenue must be segregated from the general fund in order to avoid commingling of capital facilities fees and the general fund.

The basic statutory standards governing water and wastewater capital facilities charges are embodied by Government Code Sections 66013, 66016, 66022 and 66023. In particular, Government Code 66013 contains requirements specific to pricing water and wastewater capacity charges. Section 66013 maintains:

"Notwithstanding any other provision of law, when a local agency imposes fees for water connections or sewer connections, or imposes capacity charges, those fees or charges shall not exceed the estimated reasonable cost of providing the service for which the fee or charge is imposed, unless a question regarding the amount the fee or charge in excess of the estimated reasonable cost of providing the services or materials is submitted to, and approved by, a popular vote of two-thirds of those electors voting on the issue."

The salient features of Section 66013 suggest that a capital facilities fee may not exceed the reasonable costs of providing service. The ETWD should inquire with counsel as to the nature and relevance of the law on its own capital facilities fee program.

#### Approach

There are several methodologies for calculating capital facilities fees. The various approaches have largely evolved on the basis of changing public policy, legal requirements, and the unique and special circumstances of every local agency. However, there are two general approaches that are widely accepted and appropriate for water and wastewater capacity facilities fees.

#### **Equity Buy-in Approach**

The equity buy-in approach rests on the premise that new customers are entitled to service at the same price as existing customers. However, existing customers have already developed the facilities that will serve new customers, including the costs associated with financing those services. Under this approach, new customers only pay an amount equal to the net investment already made by existing users, based on replacement cost less depreciation. This net equity investment is then divided by the current demand of the system number of customers (or customer equivalents) to determine the fee of the new user.

If the existing system has 100 units of average usage and the new connector uses an equivalent unit, then the new customer would pay 1/100 of the total value of the existing system. By contributing this capital facilities fee, the new connector has bought into the existing system. The user has effectively acquired a financial position on par with existing customers and will face future capital challenges on equal financial footing

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with those customers. This approach is suited for agencies that have capacity in their system and are essentially close to build-out.

#### **Incremental-Cost Approach**

When new users connect to a water or wastewater system, they use either surplus capacity from the existing system, which must then be replaced, or they require new capacity that must be added to the system to accommodate their needs. Under the incremental-cost approach, new customers pay for additional capacity requirements, irrespective of the value of past investments made by existing customers.

If it costs some amount of dollars (X\$) to provide 100 additional units of capacity for average usage and a new connector uses one of those equivalent units, then the new user would pay X\$/100 to connect to the system. New customers pay the incremental cost of capacity. Similar to an equity buy-in approach, new connectors will effectively acquire a financial position on par with existing customers. This approach is best suited for growing communities where additional facilities are needed to accommodate growth.

#### Approach to the ETWD Capital facilities Fees

Since the El Toro Water District is essentially built-out and will continue to incorporate few new customers into the current water and wastewater systems; these new customers will largely be served by existing infrastructure. The existing ETWD customers have invested a considerable amount of economic resources in the capital development of this system. Given the significance of this trend, an equity buy-in approach to capital facilities fees is the most appropriate method.

The basic methodology for this approach is to take the current total values of the ETWD's water and wastewater systems and divide each by the appropriate current system demands. This will render an equivalent unit of capacity per dollar, which may be translated in terms of the various levels of average actual usage for different types of customers of the ETWD water and wastewater systems.

#### **Current Value of the ETWD's Systems**

There are numerous methods that can be used to determine the current value of the ETWD's wastewater system. However, a very common approach is to determine replacement cost (historical costs escalated to current dollars) adjusted for depreciation.

To accomplish this, ETWD provided fixed asset records on the original costs of the utility systems. Replacement (or escalated) cost was then estimated by adjusting original costs to reflect what might be expected if a similar facility was constructed today. This is achieved by escalating the original construction costs by a construction cost index. The Construction Cost Index for Los Angeles (LACCI) is published by Engineering News-Record and is commonly used for this purpose. It reflects the average costs of a particular basket of construction goods over time. RFC used a CCI value of 9,182 for December 2007 to estimate the replacement costs.

To determine current value, the replacement costs were then adjusted for depreciation. The ETWD provided accumulated depreciation associated with the original cost for each of its fixed asset accounts. Once the original costs were adjusted by the LACCI to reflect replacement costs today, RFC used the ratio of the replacement cost to the original cost for each fixed asset account to similarly adjust the accumulated depreciation for those asset accounts. The accumulated depreciation was then deducted from the replacement costs to determine a replacement cost less depreciation.

The fixed asset accounts and associated replacement cost less depreciation were then allocated to the water and wastewater systems to determine the water and wastewater system assets to be used in the calculation of the capital facilities fees. The total 2007 value of the water system assets is \$45,533,128; while the total 2007 value of the wastewater system assets is \$35,732,437. The allocation of the total utility system assets to water and wastewater systems and determination of the current value of these assets used to calculate the capital facilities fees are shown in Table A-1 of Appendix A.

In addition to the current value of the fixed assets, appropriate reserve fund balances, which represent equity of the current users, and in which the new users will acquire equity, was added for both water and wastewater. As of June 30<sup>th</sup> 2008, the total reserves amounted to \$15,640,000 and are allocated 50% to water and 50% to wastewater funds.

The value of the eligible water and wastewater system assets to be recovered through water and wastewater capital facilities fees is shown in Table 2 below.

#### TOTAL VALUE OF ELIGIBLE ASSET CALCULATION

Utility Fixed Assets - Escalated Cost Less Depreciation	Total Utility	Water	Wastewater
Equipment	\$39,168,047	\$21,953,468	17,214,579
Collection & Impound Reservoirs	13,483,240	13,465,629	17,611
Structures & Improvements	28,614,278	10,114,031	18,500,247
Total Fixed Assets Recovered Through Fees	\$81,265,565	\$45,533,128	\$35,732,437
Reserve Funds	\$15,640,000	\$7,820,000	\$7,820,000
Total Value of Eligible Assets	\$96,905,565	\$53,353,128	\$43,552,437

#### **Current Capacity of the ETWD's Systems**

The second step in calculating the capital facilities fees is to determine the current usage of the water and wastewater systems. There are numerous approaches to estimating system capacity.

One approach is to determine the number of existing customers, expressed as equivalent meters. For water systems, capacity is usually expressed in meter equivalents rather than actual service connections. The benefit of using meter equivalents is that it relates the relative capacity of service connections with meters of various sizes. For instance, a 1" meter is 1.67 equivalent 34" meters.

Another approach is to express capacity in terms of the amount of water usage by customers of the water system and wastewater flow within the wastewater system, expressed in gallons per day (GPD). This method is used to determine the unit cost of capacity for the water and wastewater system.

For water, ETWD provided billing data by customers categorized by meter size and their corresponding billed water usage for FY 2008, expressed in hundreds of cubic feet (HCF). Table 3 summarizes these results and converts the meters into equivalent meter units (EMU) and the billable water usage into units of 1,000 gallons. Based on District records, ETWD's average wastewater flow of 4.32 million gallons per day is used to determine unit capacity cost of the wastewater system.

#### ANNUAL USAGE BY METER SIZE

Usage (1,000 gallons)	Usage (ccf)	Equivalent Meter Units <sup>2</sup>	Number of Meters	Capacity Ratio <sup>1</sup>		
					Meter Size	<u>Line</u>
329,248	440,171	2,391	2,391	1.00	5/8"	1
745,443	996,582	4,902	4,902	1.00	3/4"	2
71,206	95,195	746	447	1.67	1"	3
404,500	540,776	2,923	720	4.06	1.5"	4
2,144,440	2,866,899	15,285	1,500	10.19	2"	5
3,694,838	4,939,623	26,248	9,960		Total	6
10,122,844	er Day (Gallons)	age Water Usage 1	Ave			
	er Day (Gallons)	·	Ave		iotai	ь

Average Water Usage Per Day (MGD)

10.12

#### **Calculating Capital Facilities Fees**

The final step in determining the capital facilities fees for the ETWD is to divide the total current value of the water and wastewater systems by the appropriate system capacities for water and wastewater.

For water, in December 2007 dollars, the total value of eligible assets (\$53,353,128) is reduced by the current amount of outstanding developer agreements related to the water system (\$8,146) to determine the total value of the water system (\$53,344,982). This total value of the water system is then divided by the system capacity expressed in equivalent meter units (EMUs) (26,248) to determine a full cost capacity facilities fee of \$2,032.27 per EMU. Next, a (\$69.91 per EMU) credit is provided for the present value of all remaining debt principal payments related to the water assets included in the calculation. This debt principal credit per EMU is deducted from the full unit cost capacity facilities fees to ensure new customers are not double charged for the costs of these assets through their user rates and the capital facilities fees. This results in a net water capacity facilities fee per EMU of \$1,962.46 in December 2007 dollars. Using the ENR CCI for Los Angeles in March 2011, the updated water capacity facilities fees per EMU is 2,145. The detailed water capacity facilities fee calculation is show in Table 4.

<sup>&</sup>lt;sup>1</sup> Capacity ratio based on previous report Capital Facility Charge Water

<sup>&</sup>lt;sup>2</sup> Represents the total equivalent 5/8" meters assuming conversion of larger meters by capacity ratio.

#### WATER CAPITAL FACILITIES FEE CALCULATION

	RCNLD
Utility Fixed Assets <sup>1</sup>	Water
Equipment	\$21,953,468
Collection & Impound Reservoirs	13,465,629
Structures & Improvements	10,114,031
Total Value of Fixed Assets	\$45,533,128
Plus: Reserve Funds <sup>2</sup>	7,820,000
Total Value of Eligible Assets	\$53,353,128
Less: Adjustments <sup>3</sup>	(8,146)
Total Value of Water System	\$53,344,982
Equivalent Meter Units ("EMU")	26,248
Full Cost Per Equivalent Meter Unit	\$2,032
Less: Debt Principal Credit Per EMU	(\$69.91)
Net Unit Cost Per EMU in 2008	\$1,962
Updated Net Unit Cost Per EMU in 2011 4	\$2,145

<sup>1</sup> From Table A-1.

One EMU represents the typical residential customer with a 5/8" meter. Since larger water meters have a greater flow capacity, this water capacity facilities fee per EMU, or 5/8" meter must be escalated to reflect the flow ratio of each of the larger meter classes in relation to the 5/8" meter. All customers with meters larger than 5/8 inches are assessed a water capacity facilities fee based on the appropriate number of EMU shown in Table 3. For instance, a 2" meter which is equivalent to 10.19 5/8" meters would pay a fee of \$21,856. The water capacity facilities fee per meter size is presented in Table 5 below.

From Mike Grandy email on 9/24/08 - 6/30/08 total reserves \$15,640,000 with 50% to water, 50% to wastewater

<sup>&</sup>lt;sup>3</sup> Represents the June 30, 2007 outstanding balance of developer agreements for water line extensions that ETWD is obligated to repay.

 $<sup>^{\</sup>mathbf{4}}$  Inflated by using ENR CCI Los Angeles Data from Dec 2007 to Mar 2011

TABLE 5
WATER CAPITAL FACILITIES FEE PER METER SIZE

	Capacity Ratio	2011 Capital Facilities Fees
<u>Meter Size</u>	Lawrence	
5/8"	1.00	\$2,145
3/4"	1.00	\$2,145
1"	1.67	\$3,582
1.5"	4.06	\$8,708
2"	10.19	\$21,856

Since ETWD does not currently assess water capital facilities fees, no comparison with current fees is needed.

For wastewater, in 2007 dollars, the wastewater system fixed assets (\$43,552,437) are divided by the system capacity expressed in average daily wastewater system flows (4.32 MGD). The result is a full unit cost of \$10.082 per GPD. Next, a (\$1.562 per GPD) credit is provided for the present value of all remaining debt principal payments related to the wastewater assets included in the calculation. This results in a net unit cost of \$8.520 per GPD as shown in Table 6. Using the ENR CCI for Los Angeles in March 2011, the updated net unit cost per GPD is \$9.311.

The appropriate wastewater capital facilities fee is then determined by applying the net unit cost to the wastewater generated by various user classes. The City of Los Angeles has established usage from various user classes after much research and we recommend ETWD use this data to determine the capital facilities fee. For instance, an average single family residential dwelling unit (RDU) has a sewage generation factor of 200 GPD. Recognizing that conservation has reduced the wastewater generated for customers, the residential wastewater generation is reduced from the current 250 GPD to 200 GPD. Applying the updated net unit cost of \$9.311 per GPD to the 200 GPD of residential wastewater, the capital facilities fee for the new connector is \$1,862per RDU and is shown in Table 6.

The proposed \$1,862 per RDU sewer capital facilities fees are approximately 56% higher than the existing \$1,190 per RDU wastewater capital facilities fees assessed to ETWD's residential customers.

#### WASTEWATER CAPITAL FACILITIES FEES CALCULATION

	RCNLD
Utility Fixed Assets <sup>1</sup>	Wastewtater
Equipment	\$17,214,579
Collection & Impound Reservoirs	17,611
Structures & Improvements	18,500,247
Total Value of Fixed Assets	\$35,732,437
Plus: Reserve Funds <sup>2</sup>	7,820,000
Total Value of Eligible Assets	\$43,552,437
Average Wastewater System Flows (MGD) <sup>3</sup>	4.32
Full Unit Cost Per GPD	\$10.08
Less: Debt Principal Credit Per GPD <sup>4</sup>	(\$1.56)
Net Unit Cost Per GPD	\$8.52
Updated Net Unit Cost Per GPD in 2011 5	\$9.31
Estimated Daily Wastewater Flow Per RDU	200
Wastewater Capital Facilities Fee Per RDU	\$1,862

<sup>1</sup> From Table A- 1.

#### Estimating wastewater generation factors for non-residential customers

Wastewater capital facilities fees for non-residential customers were recommended to be based on the wastewater generation factors used by the City of Los Angeles (LA) for non-residential customers as shown in Appendix B. Based on the data provided by the District, RFC reviewed the water usage and corresponding wastewater generated by various users in the District and compared that to the wastewater estimated using the LA data. RFC reviewed the annual usage of several non-residential accounts from 2007 to 2009 to compare with the LA data.

From Mike Grandy email on 9/24/08 - 6/30/08 total reserves \$15,640,000 with 50% to water 50% to wastewater

From email from Mike Grandy on Sept 24, 2008

From Table A-2B.

<sup>&</sup>lt;sup>5</sup> Inflated by using ENR CCI Los Angeles Data from Dec 2007 to Mar 2011

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The District provided RFC the monthly water usage in 2007, 2008 and 2009 of the following non-residential accounts:

- 27 restaurants
- 37 commercial offices
  - o 3 health spas
  - o 6 medical offices
  - o 12 office building
  - o 2 banks
  - o 8 retail stores
  - o 2 supermarkets
  - o 2 counseling center
  - o 1 storage
  - o 1 mortuary

Assuming a 90 percent return factor, RFC compared the District's estimated maximum wastewater generation (gallons per day – gpd) with LA's estimated wastewater generation for restaurants in Table 7 and for other commercial users in Table 8 below.

TABLE 7
Wastewater Generation Comparisons for Restaurants

	e) e	171	Atea 🔽	WIE	D)Consump	llon((GPD)	17/9	WDWales ET		Als Eth istewater	IT.
Business Name	MeterSite	Area(sq1)	(1000) sq (1)	2007	2008	2009	- 60	asumption flo Ir 1000 sq ft		() per (1000)	IWD/IA Type
AA Self Storage	1- inch	83,000	83.0	,	516	478	516	6	6	(S))(I) 20	28% storage
ally's Total Fitness	2 - Inch	20,000	20.0		4,493	4,092	4,493	225	202	600	34% health spa
ite 10 Nail & Spa	3/4 - Inch	1,000	1.0		275	245	275	275	248	600	41% health spa
otal Woman Spa	2 - inch	10,000	10.0		0	1,729	1,729	173	156	600	26% health spa
own Center	2 · inch	40,000	40.0		2,808	3,925	3,925	98	88	250	35% medical office
alencia Center	3/4 - inch	1,600	1.6		177	134	177	111	100	250	40% medical office
CORMICK MORTUARY	11/2 - inch	8,037	8.0	1,879	1,469	1,307	1,879	234	210	80	263% mortuary
TATER BROS	2-Inch	41,802	41.8	4,447	3,713	3,287	4,447	106	96	150	64% supermarket
OME DEPOT (LAGUNA WOODS)	2-Inch	105,000	105.0	3,963	3,967	2,713	3,967	38	34	80	43% retail store
AGUNA HILLS SENIOR CENTER	11/2 - inch	7,500	7.5	578	592	584	592	79	71	150	47% counseling cen
COS ORTHOPEDICS	2 - inch	35,228	35.2	2,709	2,808	3,914	3,914	111	100	250	40% medical office
OWN CENTRE	2 - Inch	48,758	48.8	779	959	853	959	20	18	250	7% medical office
OWN CENTRE AGUNA WOODS COMMUNITY CENTER	2 - Inch	220,701	220.7	1,633	1,615	1,687	1,687	20 8	7	150	5% counseling cen
ANDMARK LAKE HILLS, BLDG. E	2-inch	52,392	52.4	920	947	844	947	18	16	150	11% office building
	2-inch	54,978	55.0	1,133	676	859	1,133	21	19	150	12% office building
ANDMARK LAKE HILLS, BLDG. D		13,818	13.8	162	74	156	162	12	11 .	150	7% office building
ANDMARK LAKE HILLS, BLDG. F	2 - inch	44,856	13.8 44.9	5,074	5,599	7,232	7,232	161	145	150	97% supermarket
ONS MARKET	2 - Inch			2,980			2,980	160	144	150	96% bank
VELLS FARGO	2 inch	18,675	18.7		2,322	2,437 8,615	10,384	130	117	150	78% office building
AZ MA HAL	2 Inch	79,643	79.6	10,384	10,005	arrage a gran		26	24	250	9% medical office
ADDLEBACK VALLEY MEDICAL CENTER	2 inch	526,070	526.1	13,771	12,866	11,620	13,771		21	80	26% retail store
EARS	2 · inch	207,500	207.5	4,674	4,867	4,265	4,867	23		80	
ACY'S	2 - Inch	160,000	160.0	6,138	7,175	6,416	7,175	45	40	80 .	50% retail store
C. PENNEY	2 inch	169,000	169.0	7,162	6,359	6,519	7,162	42	38		48% retail store
AKBROOK FINANCIAL	2 inch	119,000	119.0	1,965	1,760	1,791	1,965	. 17	15	150	10% bank
IRCUIT CITY	2 - inch	47,471	47.5	496	379	100	496	10		. 08	12% retail store
AGUNA HILLS BUSINESS PARK	2 - inch	113,474	113.5	5,256	3,976	3,412	5,256	46		150	28% office building
LAZA POINTE OFFICE BLDG.	2 - tnch	63,156	63.2	2,232	2,476	2,426	2,476.	39	35	150	24% office building
LAZA POINTE	2 - Inch	30,000	30,0	662	574	1,172	1,172	39	35	150	23% office building
AGUNA HILLS COMMERCE CENTER	11/2 - inch	36,074	36.1	7,564	7,158	7,906	8,892	246	222	150	148% office building
OUTH POINTE II OFFICE CONDOS	1 1/2 - inch	44,334	44.3	600	596	617	617	14	. 13	150	8% office building
ERRA VENTURES		38,504	38.5	1,799	2,865	1,857	2,865			150	45% office building
AGUNA HILLS BUSINESS PARK, BLDG. 1	'A' 11/2 Inch	33,220	33,2	1,463	2,326	1,443	2,326	70	63	150	42% office building
HASE BUILDING	2-inch	47,949	47.9	2.656	1,758	1,570	2,656	55	50	150	33% office building
ETCO	2 - inch	28,586	28.6	937	1,055	697	1,055	37		80	42% retall store
VS PHARMACY MV	11/2 · inch	14,943	14.9	125	107	381	381	26	23	80	29% retail store
ARGET	2 - Inch	114,488	114.5	2,795	2,295	2,320	2,795	24	22	80	27% retail store
MUIRLANDS MEDICAL CENTER	2 - inch	19,569	19.6	1,801	1,521	1,439	1,801	92	83	250	33% medical office
				1 11				والمناسبة			1
verage		72,982	73.0	3,185	2,787	2,731	3,220	. 79	71	182	44%
Std Dev	4	94,668	94.7	3,160	2,917	2,741	3,131	75	67	138	47%

The actual wastewater generation patterns of the restaurants do not vary proportionally with the square footage of the service area depending on the services provided. For example, a fast food restaurant will generate less wastewater than a sit-down formal restaurant (e.g. Subway and King Fish House). LA estimates that a restaurant generates, on average, 1,000 gallons of wastewater per day (gpd) for every 1,000 sq ft service area. The actual maximum water consumption (from 2007 to 2009) of the 27 restaurants included in this analysis varies from 86 to 1,351 gpd per 1,000 sq ft service area. Assuming a 90 percent return factor, the daily wastewater generation for these restaurants ranged from 78 to 1,216 gpd per 1,000 sq ft of building. Based on this data set, on average, LA's data, modified for ETWD's usage characteristics, may be used to reasonably estimate wastewater generation. In other words, an average restaurant in ETWD potentially generates approximately 63 percent of the wastewater estimated by LA's data. As shown in Table 9 below, 95 percent confidence limits for wastewater generations of restaurants in ETWD with respect to LA's data are 63 percent ± 11 percent (or from 52 percent to 74 percent).

For commercial offices, where water is used mainly for sanitary purposes, such as fitness center, spa, banks, medical offices, etc. the LA and ETWD data are linearly proportional. On average, ETWD's flows are about 44 percent of LA's numbers for the commercial offices included in this analysis. The 95 percent confidence limits for commercial customers are 44 percent  $\pm$  15 percent (or from 28 percent to 59 percent), as shown in Table 9.

The wastewater capital facilities fee for a residential customer is \$1,862 per RDU. Capital facilities fees for non-residential customers should be based on the City of Los Angeles flows adapted to the average flows in the District as shown in Table 9. The fees should be calculated using \$9.311 per gpd as shown in Table 6. Commercial establishments may be categorized into restaurant and non-restaurant types. The average percentages of 63% and 44% will be applied to the City of Los Angeles flow data to determine the capital facilities fees for restaurants and non-restaurant commercials, respectively (see Table 9).

TABLE 8

#### **Wastewater Generation Comparisons for Commercial Offices**

										DAVOEN	
			Area	(ET)	ND Consump	itlen (GPD)			TWD Wastewater	Waterwater	
Business Name	- Meter Size A	real(sq II) (	1000 sq (s)	2007	2008)	2009)	Min	consumption per 1000 softs	flows (gpd) est. per 1000 sq ft	(groll per 1,000)	CETWD/LA Type
VAA Seif Storage	1 - Inch	83,000	83.0		516	478	516	6	6	1980	28% storege
Bally's Total Fitness	2 - Inch	20,000	20.0		4,493	4,092	4,493	225	202	600	34% health spa
lite 10 Nail & Spa	3/4 - Inch	1,000	1.0		275	245	275	275	248	600	41% health spa
Fotal Woman Spa	2 · Inch	10,000	10.0		0	1,729	1,729	173	156	600	26% health spa
Town Center	2 · Inch	40,000	40.0		2,808	3,925	3,925	98	88	250	35% medical office
/alencia Center	3/4 - inch	1,600	1.6		177	134	177	111	100	250	40% medical office
Mccormick Mortuary	1 1/2 · inch	8,037	8.0	1,879	1,469	1,307	1,879	234	210	80	263% mortuary
itater Bros	2 - inch	41,802	41.8	4,447	3,713	3,287	4,447	106	96	150	64% supermarket
Iome Depot	2 - inch	105,000	105.0	3,963	3,957	2,713	3,967	38	34	80	43% retail store
aguna Hills Senior Center	1 1/2 - inch	7,500	7.5	576	592	584	592	79	71	150	47% counseling cent
SCOS Orthopadics	2 - inch	35,228	35.2	2,709	2,808	3,914	3,914	111	100	250	40% medical office
Town Centre	2 - inch	48,758	48.8	779	959	853	959	20	18	250	7% medical office
Laguna Woods Community Center	2 - Inch	220,701	220.7	1.633	1,615	1,687	1,687	8	7	150	5% counseling cent
andmark Lake Hills, Bldg E	2 · inch	52,392	52.4	920	947	844	947	18	16	150	11% office building
andmark Lake Hills, Bldg D	2 - inch	54,978	55.0	1,133	676	859	1,133	21	19	150	12% office building
andmark Lake Hills, Bldg F	2 - inch	13,818	13.8	162	74	156	152	12	11	150	7% office building
/ons Market	2 - Inch	44,856	44.9	5,074	5,599	7,232	7,232	161	145	150	97% supermarket
Wells Fargo	2 - inch	18,575	18.7	2,980	2,322	2,437	2,980	160	144	150	96% bank
Fez Ma Hai	2 - Inch	79,643	79.6	10,384	10,005	8,615	10,384	130	117	150	78% office building
Saddleback Valley Medical Center	2 - inch	526,070	526.1	13,771	12,866	11,620	13,771	26	24	250	9% medical office
sears	2 - inch	207,500	207.5	4,674	4,867	4,255	4,867	23	21	80	26% retail store
Macy's	2 - Inch	160,000	160.0	6.138	7,175	6,416	7,175	45	40	80	50% retail store
.C. Penney	2 - inch	169,000	169.0	7,162	6,359	6,519	7,162	42	38	60	48% retail store
Oakbrook Financial	2 - inch	119,000	119.0	1,965	1,760	1.791	1.965	17	15	150	10% bank
Circuit City	2 - Inch	47,471	47.5	496	379	100	496	10	9	80	12% retail store
aguna Hilis Business Park	2 - inch	113,474	113.5	5,256	3,976	3,412	5,256	46	42	150	28% office building
Plaze Pointe Office Building	2 - inch	53,156	63.2	2,232	2,476	2,426	2,476	39	35	150	24% office building
Plaza Pointe	2 - inch	30,000	30.0	662	574	1,172	1,172	39	35	150	23% office building
Laguna Hills Commerce Center	1 1/2 - inch	36,074	36.1	7,564	7,158	7,906	8,892	246	222	150	148% office building
South Pointe H Office Condos	1 1/2 - inch	44,334	44,3	600	595	617	617	14	13	150	8% office building
Terra Ventures	* *, * *****	38,504	38.5	1,799	2,855	1,857	2,865	74	67	150	45% office building
aguna Hills Business Park, 8lgd 1A	1 1/2 - inch	33,220	33.2	1,463	2,326	1,443	2,326	70	63	150	42% office building
Chase Building	2 inch	47,949	47.9	2,656	1,758	1,570	2,656	55	50	150	33% office building
Petco	2 - inch	28,586	28.6	937	1,055	697	1,055	37	33	80	42% retail store
CVS Pharmacy	1 1/2 - inch	14,943	14.9	125	107	381	381	26	23	80	29% retail store
Target	2 - inch	114,488	14.5	2.795	2,295	2,320	2,795	24	23	80	27% retail store
Muliflands Medical Center	2 - inch	19,569	19.6	1.801	1,521	1,439	1,801	. 24	83	250	33% medical office
Average	C - 11(4)	72,982	73.0	3,185	2,787	2,731	3,220	79	71	182	44%
Std Dev		94,668	94.7	3,160	2,707	2,741	3,131	79 75	71 67	152	47%

#### TABLE 9

#### **Wastewater Generation Comparisons Summary**

Business Type	Average % ETA/JA	StdDe	v	#of Samples	95% Confidence Limits	95% Confidence Interval	lower limi	: Upped Ini	IA's Est. i Wastewater (gpd) per 4,000 sg fi	ETWD Est. WW (gpd) per 1,000 sq ft	WW Capital Facilities fores (\$ perst,000 sq ft)
Restaurant	63%	29%	:	27	11%	63%±11%	52%	74%	1,000	631	\$5,873
All Commercial Types	44%	47%		37	15%	44% ± 15%	28%	59%	-	:	
Retailstore	: :						:	:	80	35	\$324
Office building							:		150	65	\$608
Medical office			:						250	109	\$1,013
Supermarket							:		150	65	\$608
Bank									150	65	\$608
Health spa					•		:		600	261	\$2,432
Storage		:				:		:	20	9	\$81
Mortuary						:	! · ·		80	35	\$324
Counseling center	1		400					Assertion of	150	65	\$608

#### **Implementation**

Once the water and wastewater capital facilities fees are approved, new customers will be required to pay those fees consistent with the size of their meter for water or their property building square footage for wastewater. When customers change their usage and/or when redevelopment occurs, the property will be provided credit for the existing capacity applied to the property. For example, if water demands increase for a customer and the existing 1" meter needs to be replaced with a 2" meter, the customer would pay the difference between the current capital facilities cost for the two meters, so there would be a payment of \$21,856 required for the 2"meter and a credit of \$3,582 for the 1" meter resulting in a net payment of \$18,274. There would not be a charge or credit for downsizing. The District will keep track of the maximum capacity that accrues to a property. For example, if a 2" meter downsized to a 1½" meter, there would not be any payment to the customer, however, the District will maintain a record of the original 2" meter so that in the future if that property were to require a larger meter the credit for the 2" meter would be retained.

Similarly on the wastewater side, credit would be provided at the existing rates if a customer and/or redeveloper requires additional capacity to accommodate increased building square footage. Downsizing would not result in payment to a customer, but the District will keep track of the higher capacity accrued to a property to facilitate credit reconciliation as appropriate.

We have enjoyed the opportunity to assist you on this project. Should you have any questions or comments regarding this report, feel free to contact me at (626) 583-1984.

Sincerely,

RAFTELIS FINANCIAL CONSULTANTS, INC.

Sudhir Pardiwala

Vice President

# Appendix A

El Toro Water District

Water and Wastewater Capital Facilities Fee Report

El Toro Water District, California Water and Wastewater Capacity Facilities Fee Model Table A - 1 Fixed Asset Summary

			Renjacement	Acculated	-				Mostomor
MON	Fixed Assets	Original Cost	Cost	Depreciation	RCNLD	% Water	% Wastewater	water	vvastewater
	Equipment - 1418					•	•	1	Ğ
1422	Source of Supply (W)	\$129,433	\$180,179	(287,396)	\$82,783	100%	0.00%	\$82,783	0.00
1424	Effluent Disp Equipment (WW)	703,268	1,103,870	(1,014,531)	89,339	%0	100.00%	2 4 60	80° 80°
1426	Mains - (W)	1,103,304	7,554,520	(4,628,076)	2,926,444	100%	0.00%	\$2,926,444	0 0
1427	Mains - (WW)	4,288,463	6,789,711	(3,062,358)	3,727,353	%0	100.00%	20	5,727,555
1428	Pumping (W)	3,005,923	4,586,108	(2,870,269)	1,715,839	100%	%00.0	\$1,715,839	
1429	Pumping (W/W)	4,505,951	7,307,174	(5,863,640)	1,443,534	%0	100.00%	80	1,443,534
1430	Treatment (M)	1,722,733	4,887,544	(2,411,139)	2,476,405	100%	0.00%	\$2,476,405	0
1434	Treatment (AAAA)	6,527,252	9,462,935	(6,551,552)	2,911,384	%0	100.00%	\$0	2,911,384
- 6677	December (1999)	1 684 711	3,299,206	(1,202,780)	2,096,427	100%	0.00%	\$2,096,427	0
1434	Transportation & Distribution (W)	8,223,045	15,217,656	(5,651,971)	9,565,684	100%	0.00%	\$9,565,684	0
1435	Transportation & Distribution (WW)	4,385,253	11,478,254	(3,682,655)	7,795,600	%0	100.00%	\$0	7,795,600
436	Fire Maine AM	93.637	153,811	(51,362)	102,449	100%	%00.0	\$102,449	0
1430	Consider Asia	1 175 565	3 035 907	(2.127.882)	908,025	100%	0.00%	\$908,025	0
5 6	Socioto OMMA	401 118	1.211.070	(563,337)	647,733	%0	100.00%	\$0	647,733
2 2 2	Mator (AA)	393 495	1,332,106	(828,260)	503,846	100%	0.00%	\$503,846	0
2 7	Motors (VA)	533	1,648	(1,477)	171	%0	100.00%	\$0	171
<u> </u>	Weight (WW)	1 115 386	2 595 410	(1.611.030)	984,379	100%	0.00%	\$984,379	0
7447	Office Firmiting (OS)	78 329	101,294	(71,507)	29,787	20%	20.00%	\$14,894	14,894
1		393.348	531 678	(473,919)	57,759	20%	20.00%	\$28,879	28,879
244	Office Familiane (A)	31 081	38.841	(38,841)		20%	20.00%	\$0	0
777	Office Equipment (A)	989 472	1.247,791	(987,232)	260,559	20%	50.00%	\$130,279	130,279
1446	Circo Equipment (V.) Transportation Equipment (OS)	2 397,591	3,117,589	(2,593,785)	523,804	20%	20.00%	\$261,902	261,902
1450	Stores Equipment (OS)	150,117	202,102	(128,778)	73,323	20%	50.00%	\$36,662	36,662
1452	Laboratory Equipment (WW)	172,126	244,615	(236,334)	8,281	%0	100.00%	80	8,281
1454.1455.1458	Communications Equipment (W.WW.&OS)	394,192	130,033	(110,650)	19,383	20%	50.00%	\$9,692	9,692
1457	Dower Equipment (OS)	652,628	727,927	(637,380)	90,547	%09	20.00%	\$45,274	45,274
1458	Tools Shop & Garage Equipment	871.882	1,276,150	(1,148,942)	127,208	20%	20.00%	\$63,604	63,604
	Total Equipment	\$45,590,837	\$87,815,129	(\$48,647,082)	\$39,168,047			\$21,953,468	\$17,214,579
	Collection & Impound Reservoirs - 1419								
000	Collection & Imposted Recognitive (AV)	\$5 813 295	\$17,000,172	(\$3,534,543)	\$13,465,629	100%	%00.0	\$13,465,629	S S
1420	Collection & Impound Reservoirs (WW)	432,312	972,834	(955,224)	17,611	%0	100.00%	\$0	17,611
	Total Collection & Impound Reservoirs	\$6,245,606	\$17,973,006	(\$4,489,766)	\$13,483,240			\$13,465,629	\$17,611
	Structures & Improvements - 1469	6	4. 6. 7. 6. 7. 8.	(\$62.1.26.5)	900 0203	100%	%00 0	\$239.296	\$
1470	Structures & Improvements (W)	\$20°000	100,071,14	(555,473)	0000,000	200	200.004	G.	8 848 044
1471	Structures & Improvements (WW)	6,631,563	10,194,501	(1,346,457)	8,848,044	8000	100,06%	474 200	,
1472	Structures & Improvements (Pumps W)	1,580,724	2,196,975	(1,025,771)	1,1/1,204	%00L	0.00%	to,'.'.'e	7 23
1473	Structures & Improvements (WW)	142,844	167,926	(123,348)	44,578	%0	100.00%	G 6	0 /c. + 0 0
1474	Structures & Improvements (Pumps WW)	655,823	965,923	(61,830)	904,093	%0	100.00%	<b>→</b>	30,408 I
1475	Structures & Improvements (Plant)	19,507,320	26,395,893	(11,063,513)	15,332,380	20%	20.00%	\$7,666,190	061,088,7
1476	Structures & Improvements (OS)	2,859,243	3,428,323	(1,939,492)	1,488,831	20%	20.00%	\$744,416	744,416
1477	Structures & Improvements (A)	1,049,093	1,561,716	(975,864)	585,852	20%	50.00%	\$292,926	976,767
,	( )								

\$35,732,437

\$45,533,128

81,265,565

(70,604,387)

151,869,952

92,613,044

Total Fixed Assets

El Toro Water District, California Water and Wastewater Capacity Facilities Fee Model Table A - 2A Water Debt Principal Offset

(

Fiscal Year	Installment Principal Payment Agreements	Equivalent Meter Units	Principal Per EMU	Present Value
2008	\$433,452	26,248	\$16.514	\$6.433
5002	487.854	26,248	\$18.587	\$7.629
2010	549 084	26.248	\$20.919	\$9.049
2011	617,999	26,248	\$23.545	\$10.732
2012	695 563	26.248	\$26.500	\$12.729
2013	1 2 10 404	26.248	\$46.115	\$23.341
2014		26,248	\$0.000	\$0.000
	\$3 004 356		\$152.179	\$69.913
	000,400,00			

Weighted Average Cost of Debt<sup>1</sup>

5.38%

<sup>1</sup> Represents the weighted average interest rate on all remaining debt. See Schedule A - 2B for more information.

# El Toro Water District, California Water and Wastewater Capacity Facilities Fee Model

Table A - 2B

Wastewater Debt Principal Offset

Fiscal Year	1993 COP	2002 Installment	Installment Payment Agreements	SRF Loan	Total	Average Daily Flows, GPD	Principal Per Gallon
2008	\$65,000	\$56,000	\$197.024	\$469,323	\$787,347	4,320,000	\$0.182
8000	20 000	55.000	221.752	477,785	824,537	4,320,000	\$0.191
2010	200,07	58.000	249,584	486,399	863,983	4,320,000	\$0.200
2013	75,000	63 000	280,909	495,192	914,101	4,320,000	\$0.212
2012	80,00	68.000	316,165	504,098	968,263	4,320,000	\$0.224
2012	85,000	152.800	275,092	532,029	1,044,920	4,320,000	\$0.242
2013	,,,,,	152,800	275 092	532,029	959,920	4,320,000	\$0.222
2014		152,800		532,029	684,829	4,320,000	\$0.159
202		152 800		532,029	684,829	4,320,000	\$0.159
2010		152 800		532,029	684,829	4,320,000	\$0.159
2018		11,270		561,151	572,421	4,320,000	\$0.133
	\$445,000	\$1,075,270	\$1,815,617	\$5,654,091	\$8,989,978		\$2.081
Interest Rate	4.68%	4.90%	12.00%	1.50%			
Percent of Total	5.97%	7.38%	32.73%	53.91%	100.00%		

\$0.173 \$0.172 \$0.171 \$0.172 \$0.172 \$0.164 \$0.099 \$0.094 \$0.094

Present Value \$1.562

<sup>1</sup> Represents the weighted average interest rate on all remaining debt.

Weighted Average Cost of Debt '

# Appendix B

Sewage Generation Factors

	Charge Guide	
	(gpd)	Units
	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Acupuncture	150	1000 gr.sq.ft.
Arcade - Video Games	kasanjasjagasalistionelea palyenengasalasianasianas	1000 gr.sq.ft.
Auditorium	a a a sa a garanta a na a na anta da a fali da a da a da	seat
Auto Parking	and and a state of the control of the antique of the control of th	1000 gr.sq.ft.
Auto Body/Mechanical Shop (domestic)	er dynamic from the first of the region of the contract of the	1000 gr.sq.ft.
Auto Body/Mechanical Shop (industrial)	1,440	gpm avg.
Bakery	化氯化二甲基甲基甲基基甲甲甲基二甲甲甲基甲甲甲甲甲基甲甲甲	1000 gr.sq.ft.
Bank: Headquarters	150	1000 gr.sq.ft.
Bank: Branch	80	1000 gr.sq.ft.
Banquet Room/Ballroom	800	1000 gr.sq.ft.
Bar:Fixed Seat	18	seat
Bar: Juice, No Food & Pastry	120	1000 gr.sq.ft.
Bar: Juice, Pastry Only	280	1000 gr.sq.ft.
Barber Shop	100	1000 gr.sq.ft,
Beauty Parlor	280	1000 gr.sq.ft.
Building Construction/Field Office	150	office
Bowling Alley: Alley & Lobby Area	80	1000 gr.sq.ft.
Bowling Facility: Arcade/Bar/Restaurant/Dancing	sum	
Cafeteria: Fixed Seat	30	seat
Car Wash: Automatic		gpm avg.
Car Wash: Coin Operated	ntrativas kalitikas kirjai kirjai krijai kai kai kai kai kai kai kai kai kai k	stall
Car Wash: In Bay	Talan terapa and the fighter carried to the first time.	gpm avg.
Car Wash: Counter & Sale Area	80	1000 gr.sq.ft.
Chapel: Fixed Seat		seat
Chiropractic Office		1000 gr.sq.ft.
Church: fixed Seat		seat
Church School: Day Care/Elementary	NOS PARESTAS POR PROPERTA DE SA PARESA EN SA PARESA DE PARESA PARESA DE CARRADA DE PARESA DE PAR	occupant
Church School: One Day Use		1000 gr.sq.ft.
Cocktail Lounge: Fixed Seat	Nederland September (1994) i propin et la relegio però de la legio colombia de la relación de la relación de l	seat
Coffee House: No Food & Pastry		1000 gr.sq.ft.
Coffee House: Pastry Only		1000 gr.sq.ft.
Coffee House: Serves Cooked Food		seat
Cold Storage: No Sales	Palas Papalais para (Ellas Espais con discionida espais de la Pala	1000 gr.sq.ft.
Cold Storage: Retail Sales		1000 gr.sq.ft.
Comfort Station: Public		fixture
Commercial Use		1000 gr.sq.ft.
Community Center	AccesionAnnesia (accesiona via Astronomiera escribia e en el	occupant
Conference Room of Office of Building	same as o	
Counseling Center	4.14.14.14.14.14.14.14.14.14.1 <b>150</b>	1000 gr.sq.ft.

	Charge Guide	Charge Guide	
	(gpd) Units	ı	
Credit Union	150 1000 gr.sq.ft		
Dairy: Barn	1,440 gpm avg.		
Dairy: Retail Area	80 1000 gr.sq.ft		
Dance Studio	80 1000 gr.sq.ft		
Dental Office/Clinic	250 1000 gr.sq.ft	ray retailed	
Doughnut Shop	280 1000 gr.sq.ft	•	
Drug Abuse	150 1000 gr.sq.ft		
Equipment Booth	20 1000 gr.sq.ft		
Film Processing: 1 Hour Photo, etc.	100 1000 gr.sq.ft		
Film Processing: Industrial (domestic)	80 1000 gr.sq.ft		
Film Processing: Industrial (industrial)	1,440 gpm avg.		
Food Processing Plant (domestic)	80 1000 gr.sq.ft	•	
Food Processing Plant (industrial)	1,440 gpm avg.		
Gas Station: Self Service	100 W.C.		
Gas Station: Four Bays Maximum	430 station		
Golf course: 18-Hole/9-Hole Green Area			
Golf Course: Driving Range			
Golf Course Facility: Lobby/Office/Restaurant/Bar	sum		
Gymnasium: Basketball, Volleyball	250 1000 gr.sq.ft		
Hanger (Aircraft)	80 1000 gr.sq.ft	•	
Health Club/Spa	800 1000 gr.sq.ft		
Homeless Shelter	75 bed		
Hospital	7.5 bed		
Hospital: Convalescent	75 bed		
Hospital: Animal	280 1000 gr.sq.ft		
Hospital: Psychiatric	75 bed		
Hospital: Surgical	450 bed		
Hotel: Use Guest Rooms Only	130 room		
Industrial Discharge	1,440		
Jail	85 inmate		
Kennel: Dog Kennel/Open	100 1000 gr.sq.ft		
Laboratory: Commercial	250 1000 gr.sq.ft		
Laboratory: Industrial	1,440 gpm avg.		
Laundromat	170 machine		
Library: Public Area	80 1000 gr.sq.ft		
Library: Stacks, Storage	25 1000 gr.sq.ft		
Lobby of Retail	80 1000 gr.sq.ft		
Lodge Hall (LACSDs - "Club")	4 seat	5 () 18, 5	
Lounge	80 1000 gr.sq.ft		

	Charge Guide
	(gpd) Units
Machine Shop (domestic)	80 1000 gr.sq.ft.
Machine Shop (udmestre)	1,440 gpm avg.
Manufacturing/Industrial Facility (domestic)	80 1000 gr.sq.ft.
Manufacturing/Industrial Facility (industrial)	1,440 gpm avg.
Massage Parlor	275 1000 gr.sq.ft.
Medical Building	250 1000 gr.sq.ft.
Medical: Lab in Hospital	250 1000 gr.sq.ft.
Medical Office/Clinic	250 1000 gr.sq.ft.
Mini-Mall (Shell)	80 1000 gr.sq.ft.
Mortuary: Chapel	5 7 gr,sq.ft.
Mortuary: Living Area	80 1000 gr.sq.ft.
Motel: Use Guest Rooms Only	130 room
Museum: All Area	20 1000 gr.sq.ft.
Museum: Office Over 15%	150 1000 gr.sq.ft.
Museum: Sale Area	80 1000 gr.sq.ft.
Night Club: Fixed Seat Area	18 seat
Night Club: Dancing Area	600 1000 gr.sq.ft.
Night Club: Public Table Area	600 1000 gr.sq.ft.
Office Building	150 1000 gr.sq.ft.
Office Building with Cooling Tower	180 1000 gr.sq.ft.
Plating Plant (domestic)	80 1000 gr.sq.ft.
Plating Plant (industrial)	1,440 gpm avg.
Pool Hall (No Alcohol)	80 1000 gr.sq.ft.
Post Office: Full Service	150 1000 gr.sq.ft.
Post Office: Private Mail Box Rental	80 1000 gr.sq.ft.
Prisons	175 inmate
Residential Dorm: College or Res.	75 student
Residential: Boarding House	75 bed
Residential: Apt Bachelor	80 dwelling unit
Residential: Apt 1 Bedroom	120 dwelling unit
Residential: Apt 2 Bedrooms	160 dwelling unit
Residential: Apt 3 Bedrooms	200 dwelling unit
Residential: Apt >3 Bedroom	40 additional bedroom
Residential: Condo - 1 Bedroom	120 dwelling unit
Residential: Condo - 2 Bedrooms	160 dwelling unit
Residential: Condo - 3 Bedrooms	200 dwelling unit
Residential: Condo ->3 Bedrooms	40 additional bedroom
Residential: Duplex/Townhouse /SFD - 1 Bedroom	130 dwelling unit
Residential: Duplex/Townhouse /SFD - 2 Bedrooms	180 dwelling unit

	C	Charge Guide	
	(gpd)	Units	
Residential: Duplex/Townhouse /SFD - 3 Bedrooms	230	dwelling unit	
Residential: Duplex/Townhouse /SFD - >3 Bedrooms	50	additional bedroom	
Residential Room Addition: Bedroom	50	bedroom	
Residential Room Addition: Other than Bedroom			
Residential Room Conversion into a Bedroom	50	bedroom	
Residential Room Conversion into a Room Other than Bedroom			
Residential: Mobile Home		dwelling unit	
Residential: Artist (2/3 Area)	80	1000 gr.sq.ft.	
Residential: Artist Residence	80	dwelling unit	
Residential: Guest Home with Kitchen	Same as A	Apartment	
Residential: Guest Home without Kitchen	entransación de la contrata de la c	bedroom	
Rest Home	ura en en el entre de la compresenta de la compresa del compresa de la compresa de la compresa del compresa de la compresa del la compresa del la compresa de la compresa del la compresa de la compresa del la compresa del la compresa del la compresa del la compr	bed	
Restaurant ( LACSD Data)	1,000	1000 gr.sq.ft.	
Retail Area	стын санситулган жайын жүрүнү күнүн күнүн жайын	1000 gr.sq.ft.	
Rifle Range: Shooting Stalls, Lobby Area	80	1000 gr.sq.ft.	
Rifle Range Facility: Bar/Restaurant	sum		
School: Arts/Dancing/Music		1000 gr.sq.ft.	
School: Day Care Center	8	child	
School: Elementary/Jr, High		student	
School: High School	12	student	
School: Kindergarten	200	1000 gr.sq.ft.	
School: Martial Arts	ukonderak bilangan bahan di kalendera bahan bahan delak bahan bahan bahan bahan bahan bahan bahan bahan bahan b	1000 gr.sq.ft.	
School: Nursery-Day Care	8	child	
School: Special Class-LAC	8	student	
School: Trade or Vocation	12	student	
School: Training	12	student	
School: University/College	18	student	
School: Dormitory	75	student	
School: Stadium, Pavilion	4	seat	
Skating Rink: Ice or Roller	250	1000 gr.sq.ft.	
Spa /Jacuzzi (Commercial)	1,440	gpm avg.	
Spa /Jacuzzi (Residential)			
Storage: Building/Warehouse	20		
Storage: Self Storage	20	1000 gr.sq.ft.	
Store: Ice Cream	80	1000 gr.sq.ft.	
Store: Retail	80	1000 gr.sq.ft.	
Studio: Film/TV - Audience Viewing Room	4	seat	
Studio: Film/TV - Regular Use Indoor Filming Area	80	1000 gr.sq.ft.	
Studio: Film/TV - Industrial use Film Process/Machine Shop (do	omestic 80	1000 gr.sq.ft.	

	Charge Guide	
	(gpd)	Units
Studio: Film/TV - Industrial use Film Process/Machine Shop (industrial	1,440	gpm avg.
Studio: Recording	80	1000 gr.sq.ft.
Swimming Pool (Commercial, with Backwash Filters)	1,440	gpm avg.
Swimming Pool (Residential, with Replaceable Filter Cartridges)		
Tanning Salon: Independent, No Shower	80	1000 gr.sq.ft.
Tanning Salon: Within a Health Spa/Club	800	1000 gr.sq.ft.
Theater: Drive-in	10	vehicle
Theater: Live/Music/Opera	4	seat
Гheater: Cinema	4	seat
Fract: Commercial/Residential		acre
Fract: Residential, Condo	same as co	ondo - 3 Bdr
Fract: Residential, Duplex/Townhouse/SFD	same as d	uplex, etc3 Bdr
Trailer - Construction/Field Office	150	office
Veterinarian	280	1000 gr.sq.ft.
Warehouse	the second second second	1000 gr.sq.ft.
Warehouse with Office	charge ser	parately
Waste Dump: Recreational	g step et sû tibûlê û nijî bir	station
Wine Tasting Room: Kitchen	215	1000 gr.sq.ft.
Wine Tasting Room: All Area	80	1000 gr.sq.ft.