

Town of Discovery Bay Community Services District

Wastewater Rate Study Draft Report May 10, 2016



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Town of Discovery Bay Community Services District
1800 Willow Lake Road
Discovery Bay, CA 94505-9376

Re: Wastewater Rate Study

Bartle Wells Associates (BWA) is pleased to submit to the Town of Discovery Bay Community Services District (Town) the attached Wastewater Rate Study. The report presents BWA's analysis of the capital and operating costs of the wastewater (sewer) utility. It lists the assumptions and rate design objectives used in BWA's analysis. The report recommends updating rates and charges to more accurately recover the costs of providing service to the Town's customers. Recommendations were developed with substantial input from Town staff.

BWA finds that the wastewater rates and charges proposed in our report to be based on the cost of service, follow generally accepted rate design criteria, and adhere to the substantive requirements of Proposition 218. BWA believes that the proposed rates are fair and reasonable to the Town's customers.

I enjoyed working with you on the sewer rate study and appreciate the assistance and cooperation of Town staff throughout the project. Please contact me if you ever have any future questions about this study and the rate recommendations.

Yours truly,

ALISON LECNOWICZ
Vice President
Bartle Wells Associates

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Executive Summary

Bartle Wells Associates (BWA) was engaged by the Town of Discovery Bay Community Services District (Town) to review the rates and charges of the wastewater enterprise fund and to recommend updates to better reflect the cost of providing service to the Town's customers. Throughout this report, BWA makes a number of recommendations and conclusions which are provided below. Ultimately, BWA recommends increasing rates 11% in fiscal years (FY) 2017 and 2018, with annual inflationary cost increases not less than 4% per year from FY2019 to FY2021. These rate increases are based on the cost of service, are fair to customers, and meet the substantive requirements of Proposition 218. A schedule of recommended rates is provided as Table ES-1.

Key Findings

- The Town is in adequate financial shape, has positive net revenues, and has healthy fund reserves.
- In 2012, the Town sold \$14.15 million in water and wastewater enterprise revenue bonds at a favorable interest rate of 4.17% over a thirty-year term. At the beginning of FY2016, The Town had about \$1.5 million in proceeds remaining from the bonds for wastewater projects, which have been recently expended.
- To meet new regulatory permit requirements, the Town is planning to construct an effluent filtration project in FY2017. The Town has already conducted planning activities at a cost of \$700,000 and the remaining project cost is \$6.7 million.

Key Recommendations

- The wastewater rates and charges should be increased by 11% in FY2017 and FY2018 to fund capital projects, maintain debt service coverage, and maintain necessary fund reserves. Rates should increase 4% annually thereafter from FY2019 to FY2021 to keep up with inflationary cost increases.
- Proposition 218 allows agencies to implement rates and charges that are lower than those approved via the Prop 218 hearing process. If annual cost increases are less than 4%, the Town has the option to increase rates and charges by the actual annual change in the Consumer Price Index.
- All residential customers are billed for wastewater service on the annual tax roll and commercial customers are metered and billed a volume charge for actual wastewater flow.
- The Town should meet or exceed debt coverage legal requirements.
- The Town should maintain an operating reserve of four months of operating expenses.
- The Town should continue to fund repair and replacement capital improvements to maintain and upgrade the wastewater system.

**TABLE ES-1
PROPOSED WASTEWATER
RATE INCREASES**

WASTEWATER	Current		Proposed FY 2016/17		Proposed FY 2017/18		Proposed FY 2018/19		Proposed FY 2019/20		Proposed FY 2020/21	
	Monthly (\$/DU)	Yearly (\$/DU)	Monthly (\$/DU)	Yearly (\$/DU)	Monthly (\$/DU)	Yearly (\$/DU)	Monthly (\$/DU)	Yearly (\$/DU)	Monthly (\$/DU)	Yearly (\$/DU)	Monthly (\$/DU)	Yearly (\$/DU)
Single Family - Each DU	\$61.95	\$743.36	\$68.76	\$825.13	\$76.32	\$915.89	\$79.38	\$952.53	\$82.55	\$990.63	\$85.85	\$1,030.26
Multiple Family/Condos - Each DU	\$46.46	\$557.56	\$51.57	\$618.89	\$57.25	\$686.97	\$59.54	\$714.45	\$61.92	\$743.03	\$64.40	\$772.75
Vacant	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00
Nonresidential Metered	Use (\$/ccf)		Use (\$/ccf)		Use (\$/ccf)		Use (\$/ccf)		Use (\$/ccf)		Use (\$/ccf)	
Business/Government/Clubs	\$4.303		\$4.776		\$5.302		\$5.514		\$5.734		\$5.964	
Restaurants/Bars/Dining Facilities	\$12.601		\$13.987		\$15.526		\$16.147		\$16.793		\$17.464	
Schools	\$3.873		\$4.299		\$4.772		\$4.963		\$5.161		\$5.368	
Other Domestic Strength Users	\$4.303		\$4.776		\$5.302		\$5.514		\$5.734		\$5.964	

DU = Dwelling Unit

ccf = 100 cubic feet = 748 gallons

Rate Setting Legislation and Principles

In conducting this wastewater rate study, BWA adheres to the Proposition 218 requirements as described in this section. Subsequent sections provide the detailed, cost of service basis for BWA's rate recommendations.

Proposition 218

Proposition 218, the "Right to Vote on Taxes Act", was approved by California voters in November 1996 and is codified as Articles XIII C and XIII D of the California Constitution. Proposition 218 establishes requirements for imposing or increasing property related taxes, assessments, fees and charges. For many years, there was no legal consensus on whether water and sewer rates met the definition of "property related fees". In July 2006, the California Supreme Court essentially confirmed that Proposition 218 applies to water and wastewater rates.

BWA recommends that the Town follow the procedural requirements of Proposition 218 for all wastewater rate changes. These requirements include:

- **Noticing Requirement:** - The Town must mail a notice of proposed rate increases to all affected property owners. The notice must specify the basis of the fee, the reason for the fee, and the date/time/location of a public rate hearing at which the proposed rates will be considered/adopted.
- **Public Hearing:** - The Town must hold a public hearing prior to adopting the proposed rate increases. The public hearing must be held not less than 45 days after the required notices are mailed.
- **Rate Increases Subject to Majority Protest:** - At the public hearing, the proposed rate increases are subject to majority protest. If more than 50% of affected property owners submit written protests against the proposed rate increases, the increases cannot be adopted.

Proposition 218 also established a number of substantive requirements that are generally deemed to apply to utility service charges, including:

- **Cost of Service** - Revenues derived from the fee or charge cannot exceed the funds required to provide the service. In essence, fees cannot exceed the "cost of service".
- **Intended Purpose** - Revenues derived from the fee or charge can only be used for the purpose for which the fee was imposed.
- **Proportional Cost Recovery** - The amount of the fee or charge levied on any customer shall not exceed the proportional cost of service attributable to that customer.
- No fee or charge may be imposed for a service unless that service is used by, or immediately available to, the owner of the property. Standby charges shall be classified as "assessments" which are governed by Article 13D Section 4.

Charges for water, wastewater, and refuse collection are exempt from the additional voting requirements of Proposition 218 provided the charges do not exceed the cost of providing service and are adopted pursuant to procedural requirements of Proposition 218.

Rate Development Principles

In reviewing the Town's current wastewater rates and finances, BWA used the following criteria in developing our recommendations:

1. *Revenue Sufficiency:* Rates should recover the annual cost of service and provide revenue stability.
2. *Rate Impact:* While rates are calculated to generate sufficient revenue to cover operating and capital costs, they should be designed to minimize, as much as possible, the impacts on ratepayers.
3. *Equitable:* Rates should be fairly allocated among all customer classes based on their estimated demand characteristics. Each user class only pays its proportionate share.
4. *Practical:* Rates should be simple in form and, therefore, adaptable to changing conditions, easy to administer and easy to understand.
5. *Provide Incentive:* Rates provide price signals which serve as indicators to conserve water and to use water efficiently.

Background

The Town provides wastewater collection, treatment, and disposal to approximately 14,000 residents. The Town last conducted a wastewater rate study in June 2013 which set rates through FY2017. This report provides recommended rates through FY2021.

The Town's wastewater (sewer) utility is available to about 6,100 single family, condominium, commercial, and vacant parcels or accounts within the Town. All sewer customers are billed annually on the property tax roll. Residential customers are billed a flat annual fixed charge. Commercial customers are billed a volume wastewater rate based on actual wastewater flow.

Current Rates and Revenues

In FY2016, the Town is projected to collect a total of about \$4.4 million in revenues from wastewater service charges, see Table 1. About \$4.28 million in rate revenues, or about 97%, is collected as fixed charges from residential customers. Volumetric charges generate about \$127,000 annually or about 3% of service rate revenue. Commercial customers are metered and pay a volume charge per hundred cubic foot (ccf, one ccf is 748 gallons) of water use/wastewater flow. The volume charges are scaled to the wastewater pollutant loading of each customer type and were developed in a previous rate study. Due to drought conditions, commercial wastewater flow is projected to decrease by 10% in FY2017.

BWA also reviewed the fixed charge applied to condominiums, vacant parcels, and residential parcels. Vacant parcels are charged about one third of the residential charge, and condominiums are charged 75% of the residential rate. BWA finds these charges to be reasonable. In BWA's experience, wastewater agencies charge condominiums or multifamily units 60% to 90% of the single family residential charge.

The typical residential customer served by the Town of Discovery Bay currently pays \$743.36 annually, or \$61.95 monthly, for wastewater service. BWA surveyed the typical bills of surrounding public agencies, see Figure 1. The Town's current wastewater bill is on the higher end of the surveyed agencies.

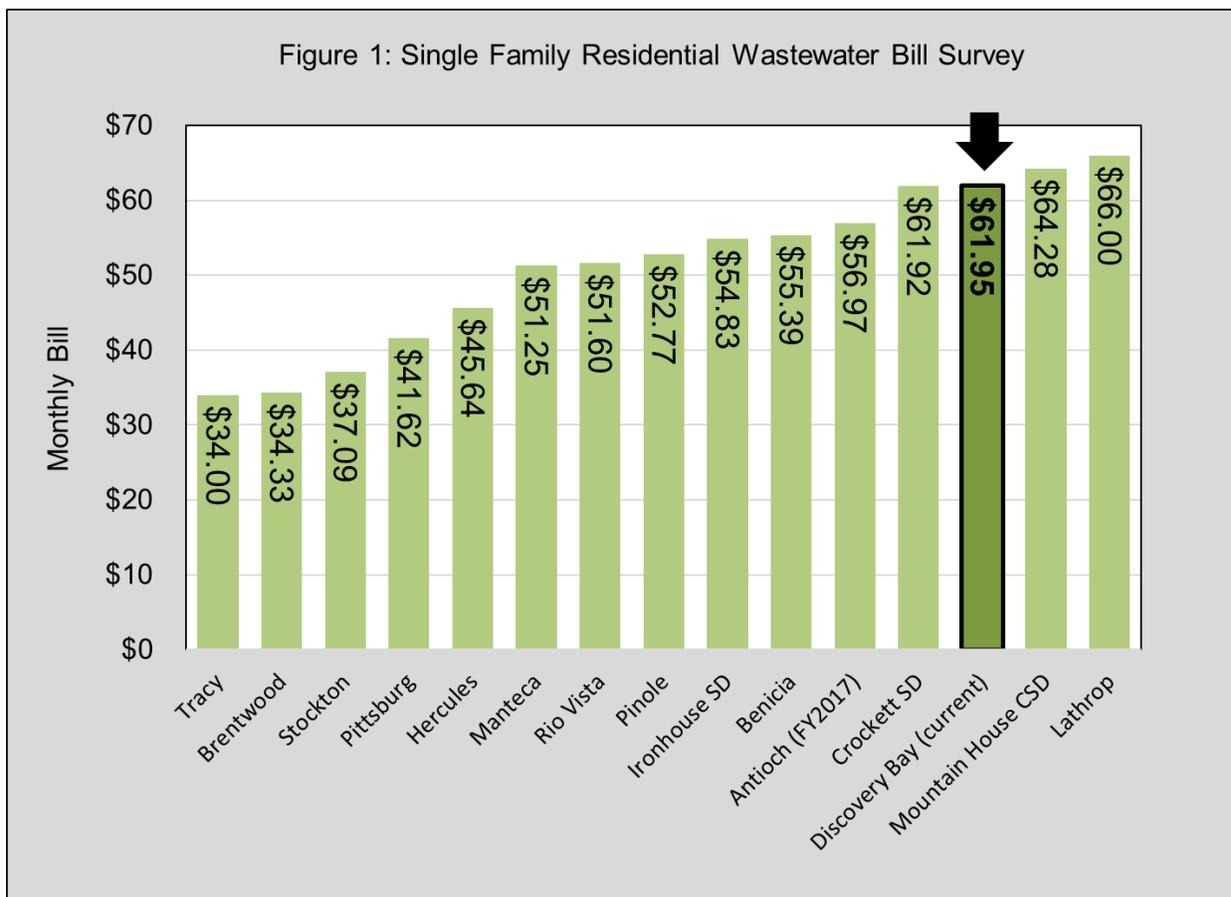
**Table 1: Current FY2016 Wastewater Service Charge Revenues
Town of Discovery Bay
Wastewater Rate Study**

Service Charges	Number of Parcels	Annual Fee	Total Annual Revenues
Single Family - Each DU	5,478	\$743.36	\$4,072,000
Multiple Family/Condos - Each DU	224	\$557.56	\$125,000
Vacant	370	\$224.00	\$83,000
Total	5,702		\$4,280,000

DU – dwelling unit

Volumetric Rate	\$/ccf	
Business/Government/Clubs	\$4.303	
Restaurants/Bars/Dining Facilities	\$12.601	
Schools	\$3.873	
Other Domestic Strength Users	\$4.303	
Typical Revenue		\$126,880

ccf – hundred cubic foot



Cost of Service

Under Proposition 218, the Town’s wastewater rates and charges must be based on the cost of providing sewer collection and treatment service. Wastewater service costs consist of the following:

- Operating costs including administration, maintenance, the service contract with Veolia, and utilities (power)
- Capital costs including but not limited to the effluent filter project, annual replacements for manholes, lift stations, and SCADA improvements, and treatment improvements
- Debt service costs on the Town’s 2012 Revenue Bonds and projected new debt
- Maintaining adequate operating and capital reserves

The Town’s budgeted operating and capital reserves are provided in Table 2. In FY2016, the wastewater utility has about \$3.7 million in reserves.

Reserves	FY2016 Budget	Water	Wastewater
Water & Wastewater Operating Reserves [1]	\$4,180,213	\$1,672,085	\$2,508,128
Sewer Infrastructure Replacement Fund	\$950,000	\$0	\$950,000
Pumps/Motors Replacement Fund	\$240,000	\$240,000	\$0
Water Infrastructure Replacement Fund	\$859,143	\$859,143	\$0
Generators Replacement Fund [1]	\$75,000	\$30,000	\$45,000
Facilities & Vehicles Replacement Fund [1]	\$252,204	\$100,882	\$151,322
Operating Reserves Total	\$4,180,213	\$1,672,085	\$2,508,128
Infrastructure Replacement Total	\$2,376,347	\$1,230,025	\$1,146,322
Total Reserves	\$6,556,560	\$2,902,110	\$3,654,450

1 - 60% of funds allocated to the wastewater enterprise

Table 3 establishes the Town’s wastewater capital costs. Major projects include the effluent filter project, vehicle storage, lift station improvements, manhole improvements, a new generator for Plant 1, a replacement lagoon dredge, a new clarifier for Plant 2, and design and engineering for the denitrifying project. It is envisioned that the Town will finance the filter project in FY2017 and may finance the denitrifying project in six to eight years. The denitrifying project is beyond the rate case study period planning horizon. All other projects will be cash funded from available revenues including capacity fee revenues from new customers connecting to the wastewater system, sewer rate revenues (expressed as a transfer from operating), and capital reserves.

The wastewater fund capital cash flow over the next five years is provided in Table 3. Historically, the Town has maintained wastewater capital reserves of over \$1 million and the rate plan developed in this report roughly continues this trend with an ending balance of about \$849,000 in FY2020.

**Table 3: Wastewater Capital Cash Flows
Town of Discovery Bay
Wastewater Rate Study**

	Current FY2016	Projected FY2017	Projected FY2018	Projected FY2019	Projected FY2020
Beginning balance	\$1,146,000	\$0	\$1,437,000	\$744,000	\$986,000
Revenues					
Capacity Fees	160,000	25,000	25,000	25,000	25,000
Remaining Proceeds from 2012 Bonds	1,500,000				
New Debt Proceeds (Filter & Plant 1)	0	7,400,000		0	0
Transfer from Operating Fund	<u>650,000</u>	<u>600,000</u>	<u>600,000</u>	<u>725,000</u>	<u>725,000</u>
Total Revenues	2,310,000	8,025,000	625,000	750,000	750,000
Capital Improvements					
Bond Financed Projects					
Splitter Box, OX ditch, Clarifier, & RAS Pumps at P2	<u>2,004,000</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Bond Financed Projects	2,004,000	0	0	0	0
Regulatory Improvements					
Filter Project	700,000	6,000,000	700,000	0	0
Dentrifying Project	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>477,000</u>
Total Growth Induced Projects	700,000	6,000,000	700,000	0	477,000
Repair and Replacement Projects					
Plant 1 Headwork cleaning, repairs & coating	25,000	0	0	0	0
Upgrade Ox Ditch 2	50,000	0	0	0	0
Annual Rehab Manholes	18,000	18,000	18,000	18,000	20,000
Annual Raise Manholes	10,000	10,000	10,000	10,000	10,000
Annual Lift Station Improvements	310,000	330,000	350,000	350,000	350,000
Annual SCADA Improvements	50,000	20,000	20,000	20,000	20,000
Portable Light Trailer [1]	9,000	0	0	0	0
Vehicle Storage [1]	<u>120,000</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Repair and Replacement Projects	592,000	378,000	398,000	398,000	400,000
Veolia Recommended Projects					
Control Panels	150,000	0	0	0	0
Replace Lagoon Dredge	0	0	110,000	0	0
Plant 2 Clarifier	0	0	100,000	100,000	0
New Generator for Plant 1	0	200,000	0	0	0
Misc.	<u>10,000</u>	<u>10,000</u>	<u>10,000</u>	<u>10,000</u>	<u>10,000</u>
Total Veolia Projects	160,000	210,000	220,000	110,000	10,000
Total Capital Improvements	3,456,000	6,588,000	1,318,000	508,000	887,000
Total Net Revenues	(1,146,000)	1,437,000	(693,000)	242,000	(137,000)
Capital Ending balance	0	1,437,000	744,000	986,000	849,000

[1] Wastewater Fund share 60%

Table 4 provides the debt service estimate for the effluent filter project. It is assumed that the project will be financed via municipal bonds with a maximum thirty-year maturity. The total project cost for the filter project is \$7.4 million, including about \$700,000 that has already been expended in FY2016 for design and engineering. The Town is able to reimburse these costs through the bonds via a reimbursement agreement. It is assumed that the filter project bonds would be issued at the same time as bonds for the water meter project (see Water Rate Study, May 6, 2016) and would thus have reduced issuance costs estimated at \$100,000 for the wastewater portion. For financial planning purposes, BWA

estimates an interest rate of 5% as a worst case scenario. Based on current market conditions, the actual average interest rate is likely to be near 4% or lower. The total annual debt service cost for the filter project is estimated to be about \$488,000 annually and payments are projected to begin in FY2018.

**Table 4: Filter Project Estimated Annual Debt Service
Town of Discovery Bay
Wastewater Rate Study**

	Filter Project
Project Cost	7,400,000
Issuance Costs	<u>100,000</u>
Total Financing	7,500,000
Term	30
Rate	5.00%
Annual Debt Service	\$487,886

Table 5 provides the wastewater fund operating cash flow including rate and non-rate revenues, operating costs, debt service costs, and transfers to the capital fund. Non-rate revenues include Zone 9 reimbursements and miscellaneous revenues for items such as delinquency fees and service calls. Non-rate revenues are estimated at \$89,000 annually and are used to offset rate increases. Total current revenues are budgeted at \$4.6 million and are proposed to increase to about \$6.3 million by FY2021. Please note that the metered sewer rate increase is 11% in FY2017. However, due to conservation, customers are projected to decrease water use by 10% which offsets the rate increase. Drought-level water use and accompanying sewer flow is projected throughout the five-year rate study period. Should water consumption increase, the Town could consider delaying or reducing future year rate increases.

Table 5 also presents the wastewater utility’s operating costs consisting of staffing, maintenance, the operations contract with Veolia, and utilities (electricity). Operating costs are projected to increase from about \$3.9 million (current budgeted) to about \$4.2 million over the next five years. FY2016 and FY2017 expenses shown in Table 5 are budgeted operating expenses. Expenses projected from FY2018 to FY2021 are based on the FY2018 expenses escalated by 3% annually.

The financial goal for the Town’s wastewater fund is to meet operating and capital costs while maintaining a good credit rating and adequate reserves for emergencies. The debt service coverage ratio for the wastewater utility is provided below. Debt service coverage is calculated as net operating revenues divided by the annual debt service payment. At minimum, BWA recommends that public agencies maintain a coverage ratio of at least 1.25 times the annual debt payment. Ideally, the Town should target a coverage ratio of 1.5 times the annual payment to maintain a strong credit rating. In FY2016, the wastewater fund is projected to end the fiscal year with a coverage ratio of 0.87. However, the Town can pledge the combined revenues of the water and wastewater enterprises to satisfy the debt service of the 2012 bonds and meet its coverage requirements. This rate plan has included rate increases to allow the wastewater fund to meet its debt coverage minimum requirements without comingling revenues with the water fund.

**Table 5: Wastewater Operating Cash Flows
Town of Discovery Bay
Wastewater Rate Study**

	Current FY2016	Projected FY2017	Projected FY2018	Projected FY2019	Projected FY2020	Projected FY2021
Beginning balance	\$2,508,000	\$1,763,000	\$1,635,000	\$1,494,000	\$1,354,000	\$1,347,000
Rate Increase		11.0%	11.0%	4.0%	4.0%	4.0%
Monthly Rate	\$61.95	\$68.76	\$76.32	\$79.38	\$82.55	\$85.85
New Customers		<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
Total Equivalents	5,758	5,763	5,768	5,773	5,778	5,783
Revenues						
Wastewater service						
Zone 9 Reimbursement	89,000	89,000	89,000	89,000	89,000	89,000
Other & Misc	60,000	60,000	60,000	60,000	60,000	60,000
Property Taxes (unmetered)	4,280,000	4,755,000	5,283,000	5,499,000	5,724,000	5,958,000
Metered sewer flow	<u>127,000</u>	<u>127,000</u>	<u>141,000</u>	<u>147,000</u>	<u>153,000</u>	<u>159,000</u>
Total revenues	4,556,000	5,031,000	5,573,000	5,795,000	6,026,000	6,266,000
% increase in expenses			3.0%	3.0%	3.0%	3.0%
Expenses						
Operating Expenses						
Admin & Inter Govt. & Board	463,000	463,000	463,000	477,000	491,000	506,000
Staffing & Consulting Serv	753,000	684,000	684,000	684,000	684,000	684,000
Operations & Maint	1,256,000	1,233,000	1,270,000	1,308,000	1,347,000	1,387,000
Utilities	484,000	484,000	499,000	514,000	529,000	545,000
Service Contract [1]	<u>950,000</u>	<u>950,000</u>	<u>965,000</u>	<u>994,000</u>	<u>1,024,000</u>	<u>1,055,000</u>
Total Operating Expenses	3,906,000	3,814,000	3,881,000	3,977,000	4,075,000	4,177,000
Net Operating Revenues	650,000	1,217,000	1,692,000	1,818,000	1,951,000	2,089,000
Debt Service						
2012 Rev. Bonds Debt Service	745,000	745,000	745,000	745,000	745,000	745,000
2017 New Debt Service	<u>0</u>	<u>0</u>	<u>488,000</u>	<u>488,000</u>	<u>488,000</u>	<u>488,000</u>
Total Debt Service	745,000	745,000	1,233,000	1,233,000	1,233,000	1,233,000
Debt Service Coverage	0.87	1.63	1.37	1.47	1.58	1.69
Total Expenses	4,651,000	4,559,000	5,114,000	5,210,000	5,308,000	5,410,000
Net Revenues	(95,000)	472,000	459,000	585,000	718,000	856,000
Transfer to Capital Fund	650,000	600,000	600,000	725,000	725,000	725,000
O&M Ending balance	1,763,000	1,635,000	1,494,000	1,354,000	1,347,000	1,478,000
Minimum balance target [2]	1,302,000	1,271,000	1,294,000	1,326,000	1,358,000	1,392,000

1 - Assumed increase in FY2017 due to contract renegotiation

2 - 4 months O&M expenses

Rate Design

BWA reviewed the Town's rate structure and finds it to be reasonable. The Town currently charges residential customers a fixed annual sewer charge and commercial customers are charged for sewer flow based on metered water use.

Residential Rate Design

As discussed in the water rate study, the typical water use in the Town is 15 ccf per month. The current single family residential sewer charge is \$61.95 per month (annual charge divided by 12 months). Divided by the current domestic strength wastewater rate of \$4.303/ccf, the equivalent monthly residential usage is 14.4 ccf. This usage corresponds with observed water consumption and is the Town’s engineering design standard. Moreover, the Town assumes multifamily (condominium) water use of 11 ccf per month. This level of water use is used to develop both unmetered multifamily water charges and sewer charges. If drought conditions persist over a longer-term planning horizon, the Town could consider adjusting the residential wastewater charge to reflect lower water consumption.

Commercial Rate Design

The Town last conducted a detailed cost allocation of wastewater treatment costs to flow, biochemical oxygen demand (BOD), and total suspended solids (TSS) in June 2011. Flow is the volume of wastewater produced by the Town and BOD and TSS are pollutant strength characteristics. For this rate study, BWA will continue with the Town’s past wastewater cost allocation developed by Hornberger Engineering. The Town should update the wastewater cost allocation as part of its next wastewater master plan.

BWA reviewed the Town’s commercial rate categories in Table 6. The rate categories and commercial rate design, generally align with industry typical methodology. Due to fats, oils, and grease disposal and treatment, restaurants, for example, typically have high wastewater rates compared to domestic strength rates. As shown in Table 6, the Town’s restaurant rate design is consistent with BWA’s review of industry typical.

**Table 6: Commercial Strength Factors
Town of Discovery Bay
Wastewater Rate Study**

Commercial Rate Category	Current Rate (\$/ccf)	Ratio to Domestic Strength	Industry Typical
Other Domestic Strength Users	\$4.303	1.00	1.00
Business/Government/Clubs	\$4.303	1.00	0.75 to 2.00
Restaurants/Bars/Dining Facilities	\$12.601	2.93	2.00 to 3.00
Schools	\$3.873	0.90	0.75 to 1.00

Service Charge Projection

BWA finds the Town’s wastewater rate design to be reasonable. To generate sufficient revenues to meet the cost of providing wastewater service over the next five years, BWA recommends maximum rate increases of 11% in FY2017 and FY2018, followed by 4% annual rate increases in FY2019 to FY2021, see

Table 7. These percent increases are applied to all rate categories except the vacant parcel charge which is projected to remain the same and is considered a legacy standby charge.

The Town’s current wastewater charge is in the high range of local agency bills. With the proposed FY2017 rate increase, the Town’s typical bill will be the highest in the region (see Figure 2). The bill survey does not include potential future rate increases that may be adopted by the agencies surveyed. Customers should note that although the Town has a relatively high wastewater bill, the Town has a relatively low typical water bill (see Water Rate Study, May 6, 2016). The combined utility bill is in the mid-range for the region.

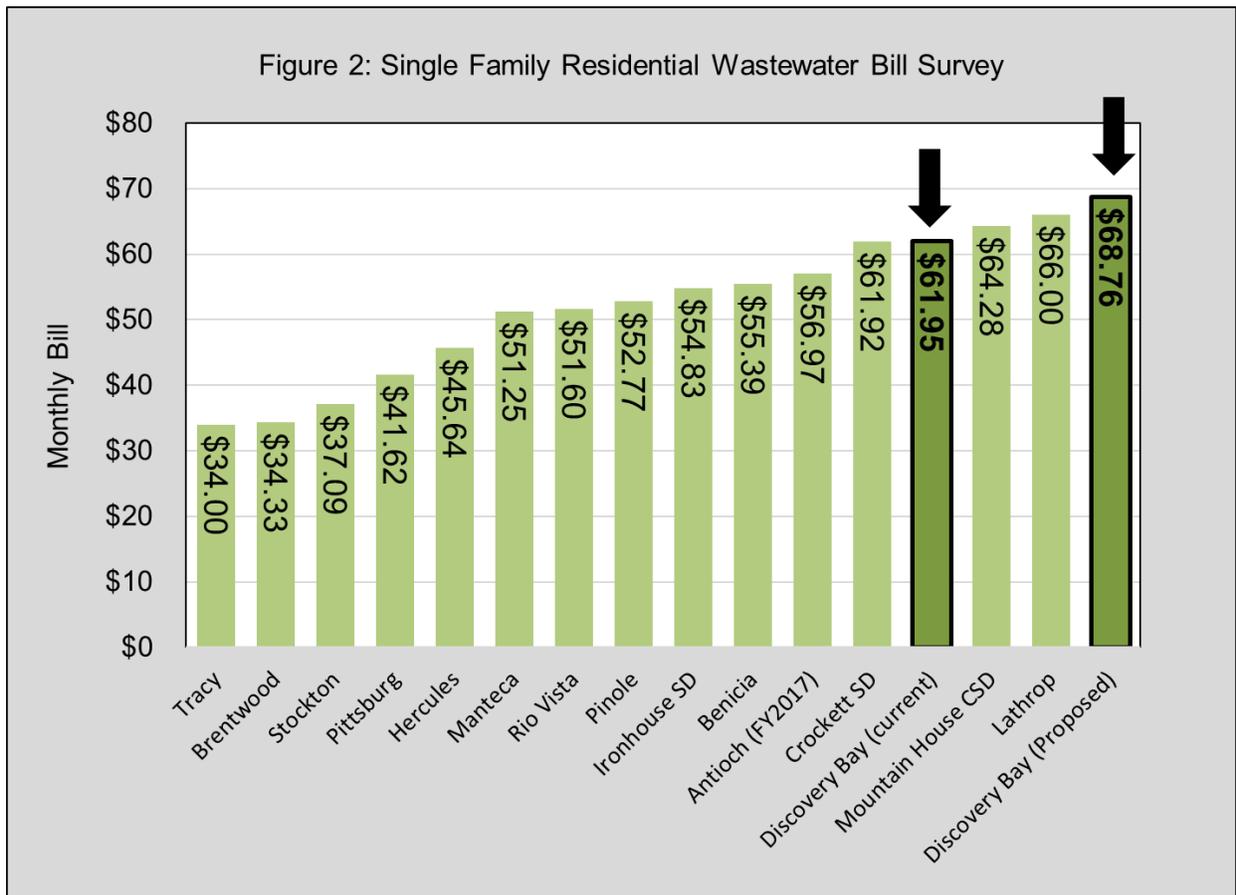


Table 7: Recommended Wastewater Rates and Charges
Town of Discovery Bay
Wastewater Rate Study
PROPOSED WASTEWATER
RATE INCREASES

WASTEWATER	Current		Proposed FY 2016/17		Proposed FY 2017/18		Proposed FY 2018/19		Proposed FY 2019/20		Proposed FY 2020/21	
	Monthly (\$/DU)	Yearly (\$/DU)	Monthly (\$/DU)	Yearly (\$/DU)	Monthly (\$/DU)	Yearly (\$/DU)	Monthly (\$/DU)	Yearly (\$/DU)	Monthly (\$/DU)	Yearly (\$/DU)	Monthly (\$/DU)	Yearly (\$/DU)
Residential Unmetered												
Single Family - Each DU	\$61.95	\$743.36	\$68.76	\$825.13	\$76.32	\$915.89	\$79.38	\$952.53	\$82.55	\$990.63	\$85.85	\$1,030.26
Multiple Family/Condos - Each DU	\$46.46	\$557.56	\$51.57	\$618.89	\$57.25	\$686.97	\$59.54	\$714.45	\$61.92	\$743.03	\$64.40	\$772.75
Vacant	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00
Nonresidential Metered	Use (\$/ccf)		Use (\$/ccf)		Use (\$/ccf)		Use (\$/ccf)		Use (\$/ccf)		Use (\$/ccf)	
Business/Government/Clubs	\$4.303		\$4.776		\$5.302		\$5.514		\$5.734		\$5.964	
Restaurants/Bars/Dining Facilities	\$12.601		\$13.987		\$15.526		\$16.147		\$16.793		\$17.464	
Schools	\$3.873		\$4.299		\$4.772		\$4.963		\$5.161		\$5.368	
Other Domestic Strength Users	\$4.303		\$4.776		\$5.302		\$5.514		\$5.734		\$5.964	

DU = Dwelling Unit
ccf = 100 cubic feet = 748 gallons