



CITY OF MADERA

DRAFT REPORT

Solid Waste Rate Study

April 2022

OFFICE LOCATIONS:

Temecula – Corporate Headquarters
32605 Temecula Parkway, Suite 100
Temecula, CA 92592

San Francisco – Regional Office
870 Market Street, Suite 1223
San Francisco, CA 94102

www.nbsgov.com

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SECTION 1. PURPOSE AND OVERVIEW OF THE STUDY

A. Purpose

The City of Madera (City) provides solid waste collection and disposal services through a franchise agreement with Mid Valley Disposal (Mid Valley) and last updated its solid waste rates in 2017, although the City has not performed a rate study in many years. Recent Proposition 218¹ (Prop 218) related court decisions² required the City to demonstrate the cost-basis of new rates, which must then be approved through Prop 218 noticing procedures.

To demonstrate this cost-basis, this comprehensive solid waste rate study evaluates revenue requirements and the estimated costs of collection and disposal services. Key objectives in this analysis include improving the fairness and equity among various customer classes and service levels and the defensibility of the City's rates. However, the most significant change is the cost the City will incur to comply with new State regulations³ (SB 1383) related to organics recycling programs, which is currently estimated to increase overall costs by approximately 35 percent. The recommended rates were developed in a manner that is consistent with industry standard cost-of-service principles and include a general SB 1383 surcharge. This surcharge may be adjusted later once actual costs and changes in services provided to customers are better understood. By documenting the rate study methodology and cost-of-service analysis, this report provides the necessary support for the Prop 218 approval process and helps the City maintain transparent communications with its residential and commercial solid waste customers.

NBS worked cooperatively with City and Mid Valley staff to develop collection and disposal costs assumptions. An overview of the rate study methodology is summarized below.

B. Overview of the Study

Comprehensive rate studies, whether for a water, sewer, or solid waste utility, include three key components:

1. **Financial Plan**, which identifies the current and projected costs and revenues, including the City's administrative and overhead costs, and the annual net revenue requirements for the solid waste utility that must be collected through solid waste rates.
2. **Cost of Service Analysis**, which determines the cost of providing service to each customer class and service level, such as the standard three-container service to residential customers vs. commercial types of service, such as two-cubic yard bin service with once-per-week pickups.
3. **Rate Design Analysis**, unlike water and sewer rate studies, which evaluate different alternatives for fixed and variable charges, solid waste rates are driven by the collection and disposal costs for each type of service, which are combined into a single fixed monthly charge⁴.

¹ California Constitution article XIII D, Section 6, commonly referred to as Proposition 218 [Prop 218].

² For example, the San Juan Capistrano court case (*Capistrano Taxpayers Association, Inc. v. City of San Juan Capistrano*, Opinion G048969, Superior Ct. No 30-2012-00594579, Filed April 20, 2015).

³ California Code of Regulations, Title 14, Division 7, Chapter 3, Article 6.0.

⁴ There is also a separate Administrative Fee, primarily for container replacement, collected from residential customers.

These three components embody the industry standards and fundamental cost-of-service rate making principles detailed in the American Water Works Association (AWWA) Principles of Water Rates, Fees, and Charges⁵, also referred to as the M1 Manual. They also represent the order in which the study was performed.

This methodology meets the Prop 218 requirements that rates not exceed the cost of providing the service, and that the rates are proportionate to the cost of providing service for all customers. That is, rates for one customer class do not subsidize the rates for another customer class.

The following sections briefly summarize each of the three study components, including the methodologies and general assumptions used in developing recommended solid waste rates. Section 2 then provides more detailed results, and the Appendix provides full documentation of how rates were developed.

FINANCIAL PLAN

NBS projected revenues and expenditures on a cash-basis for the next five years based on City budgets. The amount of rate revenue required to meet annual costs and maintain reserves at or near the recommended levels, is known as the *net revenue requirement*. As current rate revenue falls short of the net revenue requirement, rate adjustments -- or more accurately, adjustments in the total revenue collected from rates -- are recommended. There is also a question about whether the City wants to include the costs of street sweeping services in solid waste revenue requirements and whether the Administrative Fee (Admin Fee) the City currently pays to Mid Valley should be collected from residential customers.⁶

COST OF SERVICE

As noted above, cost-of-service principles are generally the same whether applied to water, sewer, or solid waste rates. Since Prop 218 requires that solid waste rates demonstrate the cost basis for the monthly charges, this study relied on the best available assumptions about these costs⁷, including waste volumes and densities, time spent on collection routes, and the differences between the costs of residential vs. commercial vs. recyclable services and various other types of service.

As with any rate study, there are limits to the level of detail on individual customers and customer classes. For example: (1) individual residential solid waste customers dispose various amounts of trash and other materials, some more than the average and some less; (2) a particular commercial customer (say a 2-Cubic Yard (CY) bin picked up once per week) may dispose twice the average trash and/or may be located significantly farther from the normal commercial route.

While costs for individual customers may be more or less than average, cost-of-service analysis treats these customers as a “customer class”, regardless of these individual differences. For example, standard single-family rates assume that all customers dispose of the same amount of trash, recyclables and green waste, and that differences in Mid Valley’s travel distances to individual customers are not a factor in their rate. Likewise, all 2-CY bin commercial customers are assumed to dispose the average amount of trash. Otherwise, customer class rates would devolve into different rates for every single customer, for which there is insufficient data, and which is not administratively or practically feasible even if there was sufficient data.

⁵ *Principles of Water Rates, Fees, and Charges, Manual of Water Supply Practices, M1, AWWA, seventh edition, 2017.*

⁶ *The City currently pays Mid Valley this fee for residential customers but does not collect it from these customers.*

⁷ *Many assumptions were provided by Mid Valley Disposal based on their experience and actual costs.*

Additionally, general guidance on rate setting practices include the following observation: (1) rates do not need to be determined on a “parcel-by-parcel” basis but can be grouped and calculated on a “class-by-class” basis; (2) “apportionment” (i.e., allocation of costs) is not a determination that lends itself to a precise calculation; (3) apportionment in accordance with the City’s informal, best cost estimates is sufficient, and (4) ratemaking data does not need to be perfect.⁸

Regarding the SB 1383 surcharge, this surcharge was calculated as a 35-percent across-the-board increase in proposed new solid waste rates. This assumes that this new regulation provides new services and environmentally based benefits to solid waste customers on a broad basis vs. specific new services (and benefits) to just a limited number of customers. Once the actual costs and specific programs are better understood, the City may need to refine this surcharge in terms of the total costs recovered and/or how it is allocated to individual customer classes.

RATE DESIGN

Rate design for solid waste rates is a far less complicated analysis than for water or sewer rates, where trade-offs between fixed and volumetric charges must be considered. In contrast, solid waste rates are 100-percent “fixed” in that they use a single monthly rate that includes both collection and disposal for each type of service. However, several of the more generic criteria documented in various rate-setting manuals⁹ are typically considered in setting solid waste rates, including pricing policies, theories, and economic concepts. The following are the rate design attributes applicable to a sound solid waste rate structure:

- Rates are easy to understand from the customer’s perspective.
- Rates are easy to administer from the utility’s perspective.
- Rates are equitable and non-discriminating (that is, cost based).
- There is continuity in the ratemaking philosophy over time.
- Rates should address other utility policies (for example, encouraging waste reduction, recycling, and the economic development of the community).
- Rates should provide month-to-month and year-to-year revenue stability.

REGULATORY ISSUES

State regulations, beginning with AB 929 in 1989, have promoted waste reduction and recycling for the purpose of preserving landfill capacities and increasing the quantity of recyclable materials reused. The key regulatory issue the City is currently facing is SB 1383 which was recently adopted and mandates significant new organics and food waste recycling programs. These extensive regulatory mandates have an initial (Tier 1) implementation date of January 1, 2022. Mid Valley and the City are currently discussing how to meet these requirements, and Mid Valley has stated that these new programs typically increase overall costs by 35-40 percent. Although NBS is recommending the City implement an SB 1383 surcharge of 35 percent, these implementation discussions will play a role in future rate increases and the currently proposed surcharge may be adjusted as needed.

⁸ ACWA Board of Directors’ Workshop Agenda Packet, July 30, 2015, Kelly Salt, Partner, Best Best & Krieger, LLP, pp. 6 and 8 of 95.

⁹ Such as the American Water Works Association (AWWA) Manual M1.

SECTION 2. SOLID WASTE RATE STUDY

A. Key Solid Waste Rate Study Issues

The City's solid waste rate analysis was undertaken with a few specific objectives, including:

- Maintaining annual revenues needed to sufficiently fund operational expenditures, including salaries and benefits of City staff, overhead/interfund charges, and regulatory compliance programs.
- Maintaining reserve fund levels to ensure future financial stability for the solid waste utility.
- Continuing to encourage recycling and waste reduction.
- Providing revenue stability for the Utility, particularly considering new regulatory mandates imposed by the State, such as SB 1383.
- Complying with Prop 218 requirements to ensure cost are properly allocated among customer classes and service levels.

The rate structure NBS proposed relied on these industry standards and cost-of-service principles. The recommended rates were calculated based on the net revenue requirements, number of customer accounts, and various assumptions and data provided by the City and Mid Valley.

B. Financial Plan

Besides meeting the overall goal of providing sufficient revenue to meet annual operating and regulatory costs, financial plans also strive to maintain reasonable reserves to handle emergencies and follow sound financial management practices to ensure the financial health of the solid waste utility. Rate adjustments are governed by the need to meet these objectives. The current financial status of the City's solid waste utility is as follows:

- **Meeting Net Revenue Requirements:** For Fiscal Year (FY) 2021/22 through FY 2026/27, the average projected net revenue requirement is approximately \$7 million per year. If no rate increases are implemented, the annual deficits are projected to grow from \$1.3 million in FY 2021/22 to \$2.2 million by FY 2026/27.
- **Operating Reserve Funds:** The operating reserve provides for fiscal emergencies such as revenue shortfalls or, more likely in the solid waste utility's case, unfunded regulatory mandates. The utility's operating reserve is considered an unrestricted reserve. Although this reserve would normally only need to be about 10 percent of annual operating expenses (given that over 60 percent of expenses are payments to Mid Valley), the utility should maintain a reserve balance of closer to 30 percent as a short-term funding backstop for SB 1383 compliance. This amounts to approximately \$1.8 million. Without rate increases, the ending balance of the operating reserves would go negative by more than \$9 million.
- **Inflation and Growth Projections:** Projected future revenue and expense assumptions were made based on current expectations, including the ongoing impacts of the Covid 19 pandemic and what appear to be accelerating inflation.
 - Although the City has some population growth, customer growth is conservatively assumed to be 0 percent.
 - General inflation is assumed to be 3 percent annually.
 - Growth in City salaries and benefits are assumed to be 1.5 percent per year.

- **Contractor Payments:** Mid Valley payments are the largest single expense and is projected assuming a general inflation rate of 3 percent annually. However, as noted above, the cost of compliance with SB 1383 will be a significant cost increase that has not yet been defined and is not included in these projections. Once the City has a better understanding of those costs, a significant future adjustment will likely be needed.

Rate revenue increases of ten percent (10 percent) in FY 2021/22 through FY 2024/25 and four percent (4 percent) in FY 2025/26 and FY 2026/27, will adequately fund operating expenses and, while maintaining less-than-optimal reserves, fixes the trending deficit and recommended levels will be achieved a few years after this five-year period.¹⁰ **Figure 1** summarizes the sources and uses of funds, net revenue requirements, and the recommended annual rate increases for the next five years. These projections do not include the assumed 35 percent surcharge needed to pay for the SB 1383 mandated costs.

Figure 1. Summary of Solid Waste Revenue Requirements

Summary of Sources and Uses of Funds and Net Revenue Requirements	Projection	Budget	Projected					
	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Sources of Solid Waste Funds								
Disposal Collection Fees	\$ 5,035,107	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337
Street Sweeping Fees	444,880	406,637	406,637	406,637	406,637	406,637	406,637	406,637
Other Charges & Interest Income	399,557	445,914	156,133	134,726	134,726	134,726	138,696	152,081
Total Sources of Funds	\$ 5,879,544	\$ 6,118,888	\$ 5,829,107	\$ 5,807,700	\$ 5,807,700	\$ 5,807,700	\$ 5,811,670	\$ 5,825,055
Uses of Solid Waste Funds								
Materials & Services	\$ 4,839,643	\$ 4,630,784	\$ 4,769,391	\$ 4,912,055	\$ 5,058,997	\$ 5,210,344	\$ 5,366,228	\$ 5,526,787
Street Cleaning	\$ 560,560	\$ 504,904	\$ 516,021	\$ 527,417	\$ 539,098	\$ 551,074	\$ 563,351	\$ 575,937
Transfer Out	\$ 780,494	\$ 780,494	\$ 780,494	\$ 780,494	\$ 780,494	\$ 780,494	\$ 780,494	\$ 780,494
Interfund Charges	\$ 470,530	\$ 470,006	\$ 484,106	\$ 498,629	\$ 513,588	\$ 528,996	\$ 544,866	\$ 561,212
Salaries & Benefits	\$ 289,754	\$ 322,358	\$ 327,193	\$ 332,101	\$ 337,083	\$ 342,139	\$ 347,271	\$ 352,480
Operating Expenses:	\$ 17,894	\$ 214,678	\$ 219,929	\$ 225,319	\$ 230,853	\$ 236,535	\$ 242,369	\$ 248,358
Total Uses of Funds	\$ 6,958,875	\$ 6,923,224	\$ 7,097,135	\$ 7,276,016	\$ 7,460,114	\$ 7,649,581	\$ 7,844,578	\$ 8,045,268
Surplus (Deficiency) before Rate Increase	\$ (1,079,331)	\$ (804,336)	\$ (1,268,028)	\$ (1,468,316)	\$ (1,652,414)	\$ (1,841,881)	\$ (2,032,908)	\$ (2,220,213)
Additional Revenue from Rate Increases	\$ -	\$ -	\$ -	\$ 1,105,931	\$ 1,743,158	\$ 2,444,107	\$ 2,752,525	\$ 3,073,279
Surplus (Deficiency) after Rate Increase	\$ (1,079,331)	\$ (804,336)	\$ (1,268,028)	\$ (362,386)	\$ 90,744	\$ 602,226	\$ 719,617	\$ 853,066
<i>Increase in Annual Rate Revenue</i>	<i>0.00%</i>	<i>0.00%</i>	<i>10.00%</i>	<i>10.00%</i>	<i>10.00%</i>	<i>10.00%</i>	<i>4.00%</i>	<i>4.00%</i>
<i>Cumulative Increases</i>	<i>0.00%</i>	<i>0.00%</i>	<i>10.00%</i>	<i>21.00%</i>	<i>33.10%</i>	<i>46.41%</i>	<i>52.27%</i>	<i>58.36%</i>
Net Revenue Requirement¹	\$ 6,114,438	\$ 6,070,673	\$ 6,534,365	\$ 6,734,653	\$ 6,918,751	\$ 7,108,218	\$ 7,299,245	\$ 7,486,550
Total Rate Revenue After Rate Increases	\$ 5,035,107	\$ 5,266,337	\$ 5,266,337	\$ 6,372,268	\$ 7,009,495	\$ 7,710,444	\$ 8,018,862	\$ 8,339,616

1. Total Use of Funds less non-rate revenues and interest earnings. This is the annual amount needed from solid waste rates.

Figure 2 summarizes the projected reserve balances and targets for the solid waste utility's operating reserve. A more detailed version of the proposed 5-year financial plan is included in the Appendix. As Figure 2 shows, reserves will meet the minimum target for all projected years.

Figure 2. Summary of Solid Waste Operating Reserve

Ending Reserve Fund Balances and Recommended Reserve Targets	Projection	Budget	Projected					
	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
O&M Reserve Fund								
O&M Reserve Fund Ending Balance	\$ 1,955,229	\$ 1,150,893	\$ (117,135)	\$ (479,521)	\$ (388,777)	\$ 213,448	\$ 933,065	\$ 1,786,131
<i>O&M Reserve Fund Minimum Target</i>	<i>1,740,000</i>	<i>1,730,000</i>	<i>1,770,000</i>	<i>1,820,000</i>	<i>1,870,000</i>	<i>1,910,000</i>	<i>1,960,000</i>	<i>2,010,000</i>
Total Ending Reserves - Proposed Rates	\$ 1,955,229	\$ 1,150,893	\$ (117,135)	\$ (479,521)	\$ (388,777)	\$ 213,448	\$ 933,065	\$ 1,786,131
Total Ending Balance w/o Rate Increases	\$ 1,955,229	\$ 1,150,893	\$ (117,135)	\$ (1,585,452)	\$ (3,237,865)	\$ (5,079,747)	\$ (7,112,655)	\$ (9,332,868)
Minimum Reserve Target	\$ 1,740,000	\$ 1,730,000	\$ 1,770,000	\$ 1,820,000	\$ 1,870,000	\$ 1,910,000	\$ 1,960,000	\$ 2,010,000

1. Beginning cash balance for the Solid Waste Fund is found in CAFR. Source File: FY-2018-2019-Comprehensive-Annual-Financial-Report.pdf, Page 42.

2. NBS recommends Solid Waste Fund will maintain a minimum of 90 days operating budget in reserves.

3. District's actual or budgeted interest earnings are used in analysis for unrestricted reserves in FY 2020/21. For 2021/22 and beyond, interest earning rates are estimated at the 3-year average (FY '17/18 - '19/20) for funds invested in LAIF, per the California Treasurer's Office website, for the restricted reserves.

¹⁰ FY2021/22 rate increases were initially assumed to be effective April 2022 but now will be effective after June 30, 2022. Therefore, the 5-year rate period is FY 2022/23 through FY 2026/27.

Figures 3 and 4 graphically show the revenues and expenses and the reserve fund balances with and without rate increases.

Figure 3. Summary of Solid Waste Revenue Requirements

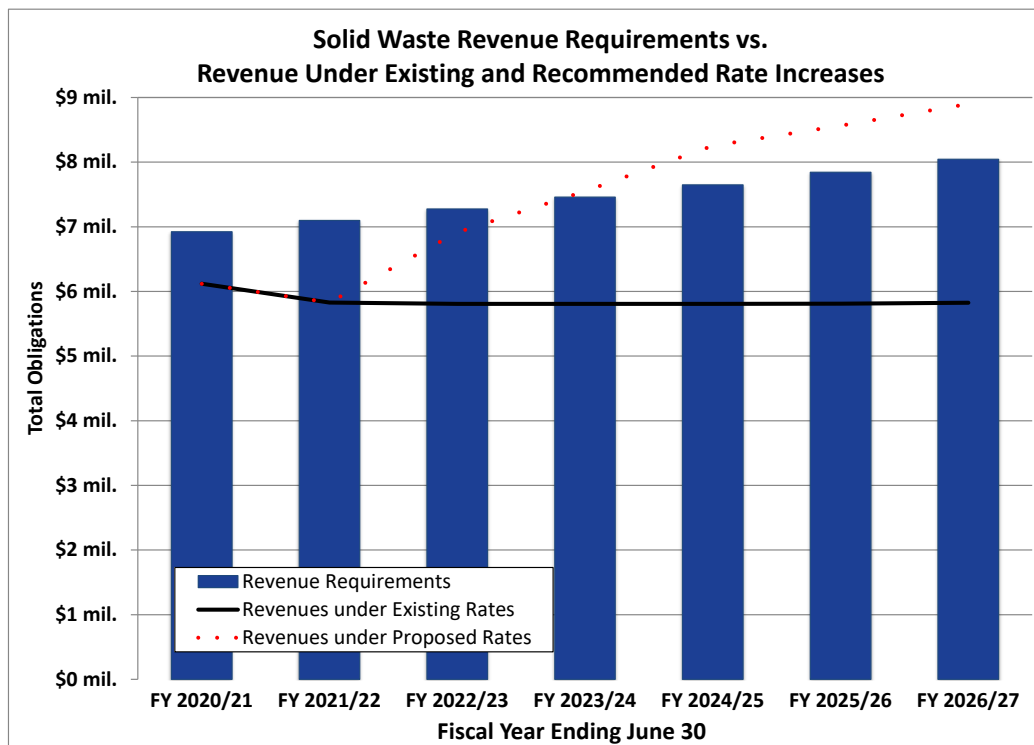
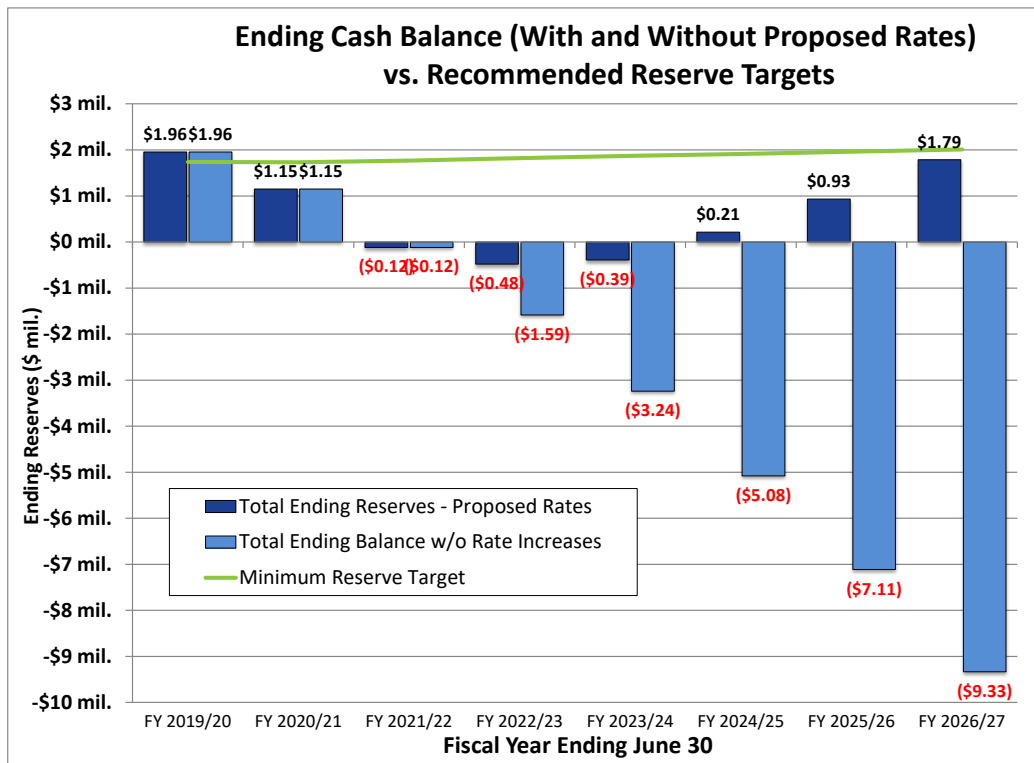


Figure 4. Summary of Solid Waste Operating Reserve



C. Cost of Service Analysis

Once the total net revenue requirements are determined, the cost-of-service analysis determines the revenue collected from each customer class.¹¹ The three components of the cost-of-service analysis are collection and disposal expenses and the City's administrative and overhead costs. Since the City contracts for collection and disposal services with Mid Valley, the City does not have direct access to individual field operation costs such as driver salaries and benefits, cost of collection vehicles, general overhead, and profit. Those costs are embodied in the City's agreement with Mid Valley, but a detailed breakdown of those costs is not available. The following is a description of the methodology followed to establish cost-based solid waste rates.

SOLID WASTE RATE METHODOLOGY

The intent of the cost of service is to anchor rates to a cost basis reasonably reflecting actual costs. Since current rates have not been updated in many years and there is no clear record of how they were originally set, some of the new rates may be quite different than the current rate.

Residential and Commercial Customer Accounts – Standard residential service, which includes three 96-gallon containers (grey for trash, blue for recyclables, and green for yardwaste/organics), account for 84 percent of all solid waste accounts¹². Typical commercial service varies by size of the bin (from 2-CY to 6-CY, and from once-per-week [1x/week] collection to six-days-per-week [6x/week]). There are also miscellaneous rates for individual containers, recyclable bins, compactor bins, and organics bins. These other rates are a small part of the overall solid waste rate revenues but are included in the various rate tables below.

Initial Rates – In general, disposal costs, which are based on discussions with Mid Valley, were calculated first. Disposal costs are assumed to be approximately 20 percent of overall rates. The remaining 80 percent is assumed to be a collection-related cost. There was no attempt to identify costs related to Mid Valley's overhead and/or profit, since those are proprietary costs and are embedded in the contracted rates the City pays Mid Valley under the franchise agreement.

True-Up Adjustments – Finally, since initial rate calculations are estimates of the actual collection and disposal costs, the revenue generated by these rates needs to be "trued-up" to the total net revenue requirement shown in the financial plan. To do this, separate across-the-board adjustments were used to calibrate the amount of rate revenue collected from residential customers, commercial bins service, and the remaining commercial customer classes.

Mid Valley estimated that 66 percent of systemwide costs are for residential service, while commercial accounts for the remaining 34 percent. Commercial bin service accounts for about 26 percent of the total revenue, with all other commercial classes making up about 8 percent of the total. Therefore, adjustments within each of these classes of customers (i.e., residential, commercial bin service, and all other commercial) were made to calibrate the rate revenues with the net revenue requirements. This approach maintains the overall cost basis between customer classes (i.e., they maintain fair and equitable shares of overall revenue), and thereby meets broader cost-of-service equity and fairness objectives.

The following is a more detailed description of the assumptions used and the rate calculations performed.

Disposal Costs – General assumptions are that trash weighs 125 lbs. per cubic yard and tipping fees are \$28/ton. According to Mid Valley, disposal costs for green waste and recyclables are approximately same as

¹¹ FY 2021/22 is the "test year" for this analysis; rates will be effective in FY 2022/23 and cover five years (through FY 2026/27).

¹² There are 13,822 standard residential accounts vs. 16,405 total accounts.

trash disposal, although we have set recyclables disposal costs at less than the cost for trash disposal because of the need to promote waste reduction and recycling. Since the City is mandated to achieve recycling and waste reduction goals, solid waste rates need to encourage this mandate. Industry standards for cost-of-service analysis allows for adjustments such as these with the broader intent of ensuring that rates within each customer class are not subsidizing costs of other customer classes. Also, most recyclable costs are bundled along with standard residential service rates. All collection containers/bins are assumed to have the same amount of material (whether trash, green waste, organics, or recyclables). Lastly, commercial compactors are assumed to have a 3:1 density ratio (i.e., 375 lbs./CY vs. 125 lbs. for uncompacted trash).

Collection Costs – Residential and commercial collection costs for a 96-gallon container are assumed to be the same regardless of type of container (grey/green/blue), and larger containers (i.e., 2 CY – 6 CY bins) are assumed to be similar regardless of container size (i.e., while disposal costs directly correlate to size, the collection costs do not). However, there are cost differences between standard residential service and commercial bins service, based on assumptions provided by Mid Valley. For example, residential 96-gallon collection generally involves short travel distances between customers whereas commercial bin service customers on average are far more “spread out” than residential customers. Also, carry-out service takes significantly more driver time than an automated curbside pickup. We have relied on Mid Valley assumptions in setting the initial rates by type of service.

The 13,822 residential standard service customers have a current rate of \$15.59/month, which is lower than the rate that the City pays Mid Valley. Therefore, the initial rate was set above the current rate before being adjusted to meet net revenue requirements. Mid Valley estimates that commercial bin rates for 1x/week service are artificially low and should be increased.¹³

In general, additional commercial pickups/week are assumed to be a straight multiple of the 1x/week service and “carryout” rates were assumed to be significantly higher than for automated curbside service, with the difference between automated and carryout assumed to be similar to the differences in current rates. For commercial compactor rates, although disposal costs reflect a 3:1 density ratio, collection costs are like those for commercial bins.

Administrative Fees – In 2018, the City transitioned certain services over to Mid Valley, including replacing residential containers and handling service calls. The City negotiated a Mid Valley reimbursement fee of \$2.33 per residential account for these services, which amounts to approximately \$400,000 per year. The City has not collected this fee from customers in the past but needs to begin doing so going forward. This cost is already included in the net revenue requirements for FY 2021/22, since it is a part of Mid Valley’s fees.

Current Rate Revenue vs. the Costs of Mid Valley Services – Figure 5 below summarizes the estimated current solid waste rate revenue the City receives¹⁴ and the costs of Mid Valley services based on the most recent invoice for January 2021. This Figure shows that approximately 70 percent of the City-collected revenue comes from residential customers (vs. Mid Valley’s estimate that residential is about 66 percent of actual costs), while commercial customers account for about 30 percent of the revenue (vs. Mid Valley’s estimate that commercial represents about 34 percent of actual costs). The Mid Valley percentages are assumed to better represent the actual costs of service (based on discussions with City and Mid Valley staff).

¹³ The City’s rate for commercial 2-CY, 3-CY, and 6-CY with 1X/week service is less than what the City pays Mid Valley. For comparison, Mid Valley’s reimbursement rate for standard residential service is only 64 percent of the rate the City charges.

¹⁴ As the most recent financial data, the \$5.375 million revenue shown in this figure is slightly higher than shown in the City budget (i.e., \$5.266 million).

Figure 5. Summary of Current Rate Revenue & Costs of Mid Valley Services

City and Mid Valley Revenue From Current Rates - FY 2021/22 (Based on Jan '21 MVD Payment)							Difference (City - MVD Rev.)
Customer Class	City Rate Revenue		Mid Valley Rate Revenue				
	Current Rates	% of Total	Contract Rate	Admin Fees	Total Revenue	% of Total	
	(Based on NBS Calculations)						
Single Family Residential	\$3,502,921	65.2%	\$2,498,240	\$388,113	\$2,886,352	63.5%	\$616,569
Multi-Family Residential	\$272,059	5.1%	\$92,440	\$12,470	\$104,910	2.3%	\$167,149
Total Residential	\$3,774,980	70.2%	\$2,590,679	\$400,583	\$2,991,262	65.8%	\$783,718
Commercial 96-Gal. Service	\$63,383	1.2%	\$41,020	\$0	\$41,020	0.9%	\$22,362
Commercial Bin Service	\$1,262,512	23.5%	\$1,185,682	\$4,446	\$1,190,127	26.2%	\$72,384
Commercial Recycling	\$247,890	4.6%	\$285,540	\$0	\$285,540	6.3%	-\$37,650
Commercial Compactor	\$6,580	0.1%	\$7,032	\$0	\$7,032	0.2%	-\$452
Commercial Organics	\$19,743	0.4%	\$28,624	\$0	\$28,624	0.6%	-\$8,881
Total Commercial	\$1,600,107	29.8%	\$1,547,899	\$4,446	\$1,552,344	34.2%	\$47,763
Total Revenue ² - FY 2021/22	\$5,375,087	100.0%	\$4,138,578	\$405,029	\$4,543,607	100.0%	\$831,481

1. Overall allocation of residential vs. commercial revenue requirements is about 66%/34% per Mid Valley Disposal.

2. Total Revenue based on Current City rates and number of accounts as of January 2021.

Proposed Revenue Requirements – Based on discussions with City staff, the new solid waste rates should include street sweeping costs and an SB 1383 surcharge. These costs would be allocated to all customers (i.e., residential and commercial), while the Admin Fee is only paid by the residential customers (i.e., single- and multi-family customers). **Figure 6** summarizes these components of the revenue requirements and **Figure 7** summarizes the total revenue generated by the new rates by customer class. These figures include the first-year increase in total rate revenue, street sweeping costs, and the SB 1383 surcharge of 35 percent, totaling \$7.8 million. These costs are discussed in more detail below.

Figure 6. Summary of Components of the Revenue Requirements

Summary of FY'21/22 Solid Waste Costs		Notes:
Net Rev. Reqts. (from Financial Plan)	\$5,792,971	From Fin. Plan (Figure 1) - Includes proposed rate increase ¹ Separately allocated to Single- and Multi-Family Resid. ² Offsets current Street Sweeping fees being collected ³
less Admin Fees (already included in the above)	(\$400,583)	
Street Sweeping Costs	\$406,637	
Net Rev. Reqts. - Including Street Sweeping	\$5,799,025	Allocated 66% to Residential, 34% Commercial
SB 1383 Surcharge (35%)	\$2,029,659	35% of Net Rev. Reqts.
Net Rev. Reqts. - Incl. Street Sweeping & Surcharge	\$7,828,683	Excludes Admin Fees separately applied to Residential

1. Assume adoption April 1, 2022 means only 25% of the rate increase is collected in FY'21/22.

2. Calculated as \$2.33/account times residential containers to which this fee applies. This is applied separately to these customers.

3. Street Sweeping fees from the Financial Plan. There are other street sweeping costs already included in Net Revenue Requirements.

Figure 7. Summary of Proposed Rate Revenue

Proposed Rate Revenue - FY 2021/22			INCLUDING STREET SWEEPING & 35% SURCHARGE		
Customer Class	Rate Revenue ¹	% of Total ²	35% Surcharge	Total Revenue	% of Total
Single Family Residential	\$3,692,620	63.7%	\$1,292,417	\$4,985,038	63.7%
Multi-Family Residential	\$134,736	2.3%	\$47,157	\$181,893	2.3%
Total Residential	\$3,827,356	66.0%	\$1,339,575	\$5,166,931	66.0%
Commercial 96-Gal. Service	\$68,453	1.2%	\$23,959	\$92,412	1.2%
Commercial Bin Service	\$1,519,344	26.2%	\$531,770	\$2,051,114	26.2%
Commercial Recycling	\$352,275	6.1%	\$123,296	\$475,572	6.1%
Commercial Compactor	\$2,262	0.0%	\$792	\$3,053	0.0%
Commercial Organics	\$29,334	0.5%	\$10,267	\$39,601	0.5%
Total Commercial	\$1,971,668	34.0%	\$690,084	\$2,661,752	34.0%
Total Revenue - FY 2021/22	\$5,799,024	100.0%	\$2,029,658	\$7,828,682	100.0%

1. Total Revenue based on Proposed Rates and number of accounts as of January 2021, including rate increases and Street Sweeping costs.

2. Overall allocation of residential vs. commercial revenue requirements is about 66%/34% per Mid Valley Disposal.

3. Admin Service Fees of \$2.33/residential account will be separately added to residential customers rates.

Street Sweeping Fees – The City currently has a street sweeping fee of \$0.0248 per foot of street exposure and a fee of \$0.0125 for additional cleaning. The City currently expects to collect about \$406,637 from these fees in FY 2021/22, although actual costs are approximately \$660,000 with the difference of about \$261,000 funded by the City’s General Fund and other Enterprise fund transfers. The nexus of the benefits of street cleaning to either the per-foot charges or the costs collected from various residential and commercial customers is not abundantly clear¹⁵, and NBS recommends incorporating the street sweeping costs into solid waste rates on a broader basis from all customers. While this would increase solid waste rates, it would also eliminate the current street sweeping charges.

The street sweeping program benefits solid waste customers in two ways: (1) the direct benefit to residents and businesses receiving the street/curb cleaning in front of their home and/or business and, (2) improved sanitation and trash removal in other public areas (streets) not necessarily tied to an individual solid waste customer. The nexus between these street sweeping benefits and the cost allocated to all solid waste customers would support including these costs on an across-the-board basis.

While there can also be a case made for allocating some of the street sweeping costs to water customers (related to protecting groundwater quality), or drainage customers (removing trash from streets helps reduce trash accumulating in drainage catch-basins thereby reducing flooding), the benefit seems more directly tied to solid waste customers. NBS recommends the City’s legal counsel review this approach before proceeding with adding street sweeping costs to solid waste rates.

SB 1383 Surcharges – As discussed above, compliance with SB 1383 is estimated to cost an additional 35-40 percent more than the revenue requirements shown previously in Figure 1. This 35 percent surcharge would generate an additional \$2.0 million in revenue used to cover the cost of newly mandated SB 1383 programs.

D. Rate Design Analysis

As previously mentioned, the rate design for solid waste rates is a fixed charge tied to estimates of the actual costs for collection and disposal rather than the combinations of fixed and variable charges used in water rates. Also, rates are calculated on a customer class basis rather than for each individual customer. For example, most individual residential customers dispose of different amounts of trash than the average residential customer (i.e., its higher or lower than average), but rates are not tailored to individual customers. The same is true for commercial customers; commercial services provide each customer with the opportunity or capacity to dispose of the volume of waste as defined by their container size, regardless of whether each customer fully utilizes that capacity.

The City’s current solid waste rates reflect the container size and the number of pickups per week, and NBS recommends that the City continue with this rate structure. Based on reasonable cost estimates and assumptions,¹⁶ NBS updated the collection and disposal components of the rates and then calibrate these rates to match the revenue requirements that should be collected from each customer class (e.g., residential vs. commercial customers).

Also, the City’s current rate schedule includes “non-functional” rates for which there are either no customers and/or there are no plans to provide a type of service in the future. For example, there are only two compactor bins service accounts, but the rate schedule includes rates for multiple bin sizes (i.e., 2 CY, 3 CY, 4

¹⁵ The City has no formal documentation of how these rates were developed or the rationale for this approach.

¹⁶ The assumptions are primarily provided by Mid Valley staff and relate to systemwide collection and disposal practices and costs.

CY, 5 CY, and 6 CY) and pickups from 1X/week through 6X/week. Likewise, there are only two commercial 5 CY bin service accounts and Mid Valley will be phasing out this service and converting these customers to another size of bin.

Lastly, NBS is recommending the proposed solid waste rates include: (1) the Admin Fee that the City currently pays Mid Valley for each residential account but has not collected from customers; (2) street sweeping costs; and (3) the 35 percent SB 1383 surcharge. These costs were not previously included customer rates.

The following section outlines the results of the rate analysis and compares the current vs. proposed new solid waste rates that include the Admin Fee, street sweeping costs, and the 35 percent SB 1383 surcharges.

E. Proposed Solid Waste Rates

This section summarizes the current and proposed new rates. For purposes of clarity, we have excluded rates that currently have no customers. The Appendix includes more detailed rate schedules that include all the rates currently in the City's rate schedule.

Figure 8 shows the monthly rates for residential and commercial customers receiving 96-gallon container service. The standard residential service, which includes over 90 percent of these services, includes three containers (trash, recyclables, and organics/green waste). **Figure 9** shows the rates for commercial bin service, and **Figures 10 and 11** shows the rates for other commercial services.

Figure 8. Solid Waste Rates for Standard (96-Gallon) Container Services
(Including Admin Fee, Street Sweeping Costs, and 35 percent Surcharge)

Customer Classes/Service Type	Current Rates FY 2019/20	Proposed Solid Waste Rates (Include Street Sweeping, Admin Fee & SB 1383 Surcharge) ¹				
		FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Single Family Residential						
Three Standard Containers	\$ 23.22	\$ 38.23	\$ 41.82	\$ 45.77	\$ 47.51	\$ 49.31
1/2 Resid. (Grey & Blue only)	\$ 16.02	\$ 30.58	\$ 33.41	\$ 36.52	\$ 37.89	\$ 39.31
Additional Grey Container	\$ 4.73	\$ 28.25	\$ 31.08	\$ 34.19	\$ 35.56	\$ 36.98
Additional Green Container	\$ 2.17	\$ 10.00	\$ 11.00	\$ 12.11	\$ 12.59	\$ 13.09
Additional Blue Container	\$ 2.17	\$ 10.00	\$ 11.00	\$ 12.11	\$ 12.59	\$ 13.09
Residential Carry-Out Service						
Two Containers	\$ 55.32	\$ 50.58	\$ 55.41	\$ 60.72	\$ 63.05	\$ 65.48
Each Additional Container	\$ 11.44	\$ 20.01	\$ 22.01	\$ 24.21	\$ 25.18	\$ 26.19
Multi-Family Residential						
First Two Dwelling Units (each)	\$ 23.22	\$ 38.23	\$ 41.82	\$ 45.77	\$ 47.51	\$ 49.31
Each Additional Dwelling Unit	\$ 22.59	\$ 35.14	\$ 38.42	\$ 42.03	\$ 43.62	\$ 45.27
Commercial						
Two Containers	\$ 29.46	\$ 50.58	\$ 55.41	\$ 60.72	\$ 63.05	\$ 65.48
Additional Container	\$ 40.85	\$ 42.08	\$ 46.28	\$ 50.91	\$ 52.95	\$ 55.07
Commercial Carry-Out Service						
Two Containers	\$ 57.64	\$ 75.29	\$ 82.59	\$ 90.61	\$ 94.14	\$ 97.82
Each Additional Container	\$ 17.70	\$ 36.48	\$ 40.13	\$ 44.14	\$ 45.91	\$ 47.74

1. Note: Admin Fee only applies to initial service charge, not on additional containers.

Figure 9. Solid Waste Rates for Commercial Bin Services

Customer Classes/Service Type		Current Rates FY 2019/20	Proposed Solid Waste Rates <i>(Include Street Sweeping & SB 1383 Surcharge)</i>				
			FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Bin Service (Solid Waste)							
<u>2 Cubic Yard</u>							
	1x per week	\$ 52.11	\$ 177.53	\$ 195.28	\$ 214.81	\$ 223.40	\$ 232.33
	2x per week	\$ 102.40	\$ 242.08	\$ 266.29	\$ 292.92	\$ 304.63	\$ 316.82
	3x per week	\$ 151.25	\$ 321.16	\$ 353.28	\$ 388.60	\$ 404.15	\$ 420.31
	4x per week	\$ 203.10	\$ 419.12	\$ 461.03	\$ 507.14	\$ 527.42	\$ 548.52
	5x per week	\$ 253.47	\$ 541.63	\$ 595.79	\$ 655.37	\$ 681.59	\$ 708.85
<u>3 Cubic Yard</u>							
	1x per week	\$ 65.84	\$ 185.59	\$ 204.15	\$ 224.57	\$ 233.55	\$ 242.89
	2x per week	\$ 130.34	\$ 258.22	\$ 284.04	\$ 312.45	\$ 324.94	\$ 337.94
	3x per week	\$ 194.44	\$ 345.37	\$ 379.90	\$ 417.90	\$ 434.61	\$ 452.00
	4x per week	\$ 258.72	\$ 451.40	\$ 496.54	\$ 546.19	\$ 568.04	\$ 590.76
	5x per week	\$ 323.14	\$ 581.98	\$ 640.18	\$ 704.19	\$ 732.36	\$ 761.65
<u>4 Cubic Yard</u>							
	1x per week	\$ 79.73	\$ 193.66	\$ 213.03	\$ 234.33	\$ 243.71	\$ 253.46
	2x per week	\$ 157.87	\$ 274.36	\$ 301.79	\$ 331.97	\$ 345.25	\$ 359.06
	3x per week	\$ 272.25	\$ 369.58	\$ 406.53	\$ 447.19	\$ 465.07	\$ 483.68
	4x per week	\$ 333.10	\$ 483.68	\$ 532.04	\$ 585.25	\$ 608.66	\$ 633.00
	5x per week	\$ 392.17	\$ 622.32	\$ 684.56	\$ 753.01	\$ 783.13	\$ 814.46
<u>5 Cubic Yard</u>							
	3x per week	\$ 276.11	\$ 393.78	\$ 433.16	\$ 476.48	\$ 495.54	\$ 515.36
<u>6 Cubic Yard</u>							
	1x per week	\$ 107.22	\$ 209.80	\$ 230.78	\$ 253.86	\$ 264.02	\$ 274.58
	2x per week	\$ 213.04	\$ 306.64	\$ 337.30	\$ 371.03	\$ 385.87	\$ 401.30
	3x per week	\$ 318.78	\$ 417.99	\$ 459.79	\$ 505.77	\$ 526.00	\$ 547.04
	5x per week	\$ 529.93	\$ 703.02	\$ 773.32	\$ 850.65	\$ 884.68	\$ 920.06

Figure 10. Solid Waste Rates for Commercial Recyclables & Compactor Services

Customer Classes/Service Type		Current Rates	Proposed Solid Waste Rates				
			(Include Street Sweeping & SB 1383 Surcharge)				
		FY 2019/20	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Bin Service (Recyclables)							
<u>2 Cubic Yard</u>							
	1x per week	\$ 31.22	\$ 78.74	\$ 86.62	\$ 95.28	\$ 99.09	\$ 103.05
	2x per week	\$ 55.98	\$ 157.49	\$ 173.24	\$ 190.56	\$ 198.18	\$ 206.11
	3x per week	\$ 80.79	\$ 236.23	\$ 259.85	\$ 285.84	\$ 297.27	\$ 309.16
<u>3 Cubic Yard</u>							
	1x per week	\$ 41.89	\$ 92.81	\$ 102.09	\$ 112.30	\$ 116.80	\$ 121.47
	2x per week	\$ 72.72	\$ 177.75	\$ 195.52	\$ 215.08	\$ 223.68	\$ 232.63
	3x per week	\$ 109.38	\$ 262.69	\$ 288.96	\$ 317.85	\$ 330.56	\$ 343.79
<u>4 Cubic Yard</u>							
	1x per week	\$ 47.92	\$ 101.63	\$ 111.79	\$ 122.97	\$ 127.89	\$ 133.01
	2x per week	\$ 89.40	\$ 192.76	\$ 212.04	\$ 233.24	\$ 242.57	\$ 252.27
	3x per week	\$ 130.89	\$ 283.89	\$ 312.28	\$ 343.51	\$ 357.25	\$ 371.54
<u>6 Cubic Yard</u>							
	1x per week	\$ 64.58	\$ 119.27	\$ 131.20	\$ 144.32	\$ 150.09	\$ 156.09
	2x per week	\$ 118.12	\$ 222.79	\$ 245.07	\$ 269.57	\$ 280.35	\$ 291.57
	3x per week	\$ 171.54	\$ 326.31	\$ 358.94	\$ 394.83	\$ 410.62	\$ 427.05
Compactor - Bin Service							
<u>3 Cubic Yard</u>							
	3x per week	\$ 388.88	\$ 201.72	\$ 221.89	\$ 244.08	\$ 253.85	\$ 264.00
<u>4 Cubic Yard</u>							
	1x per week	\$ 159.46	\$ 106.17	\$ 116.79	\$ 128.47	\$ 133.60	\$ 138.95
Roll-Off Container (Not a City rate)							
<u>25 Cubic Yard</u>							
	Monthly Rent	\$ 181.13	\$ 219.17	\$ 241.08	\$ 265.19	\$ 275.80	\$ 286.83
	Per Load	\$ 185.25	\$ 224.15	\$ 246.57	\$ 271.22	\$ 282.07	\$ 293.36

Figure 11. Solid Waste Rates for Other Commercial Services

Customer Classes/Service Type		Current Rates FY 2019/20	Proposed Solid Waste Rates				
			FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Organic Waste (Includes Street Sweeping & SB 1383 Surcharge)							
96 Gallon Container							
	1x per week	\$ 10.28	\$ 16.79	\$ 18.47	\$ 20.32	\$ 21.13	\$ 21.98
	2x per week	\$ 20.57	\$ 33.58	\$ 36.94	\$ 40.63	\$ 42.26	\$ 43.95
2 Cubic Yard Bin							
	1x per week	\$ 42.18	\$ 72.99	\$ 80.29	\$ 88.32	\$ 91.85	\$ 95.53
	2x per week	\$ 77.36	\$ 145.98	\$ 160.58	\$ 176.64	\$ 183.71	\$ 191.05
	3x per week	\$ 118.54	\$ 218.98	\$ 240.87	\$ 264.96	\$ 275.56	\$ 286.58
3 Cubic Yard Bin							
	5x per week	\$ 243.84	\$ 389.42	\$ 428.36	\$ 471.20	\$ 490.05	\$ 509.65
Miscellaneous Rates and Charges (Does Not Include Street Sweeping or SB 1383 Surcharge)							
Locking Service Fee (Optional)		\$10.00	\$ 12.10	\$ 13.31	\$ 14.64	\$ 15.23	\$ 15.84
Lost Lock Fee		\$15.00	\$ 18.15	\$ 19.97	\$ 21.96	\$ 22.84	\$ 23.75
New or Replacement Can		\$53.30	\$ 64.49	\$ 70.94	\$ 78.04	\$ 81.16	\$ 84.40
Delivery Charge		\$10.00	\$ 12.10	\$ 13.31	\$ 14.64	\$ 15.23	\$ 15.84
Street Cleaning Service							
Per foot of street exposure		\$0.0248	(Now Included in Solid Waste Rates)				
Additional Cleaning per foot		\$0.0125					

F. Comparison of Current and Proposed Solid Waste Monthly Bills

Figure 12 compares the City's current residential rates to the proposed rates with the street sweeping costs and SB 1383 surcharges. The proposed residential rates also include the Admin Fee of \$2.33/account, which does not apply to accounts with additional containers. **Figure 13** shows a detailed breakdown of the proposed single-family rate along with the current rate and the rate that the City pays Mid Valley. **Figure 14** compares the City's current commercial rates to the proposed rates with the street sweeping costs and SB 1383 surcharges.

Figure 12. Solid Waste Rates - Residential Customers

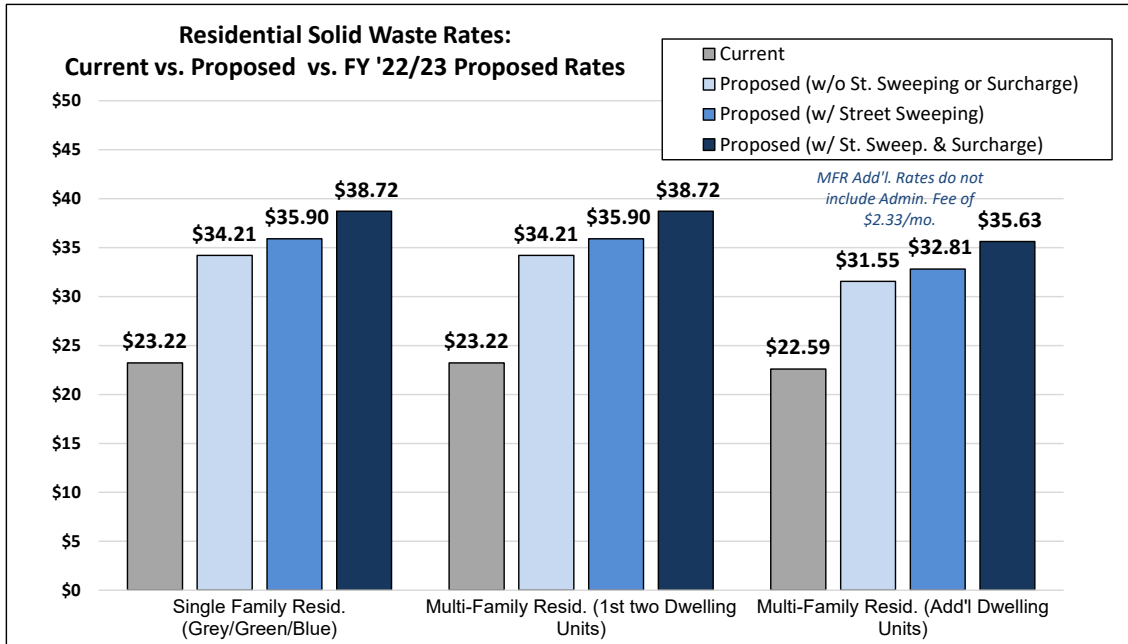


Figure 13. Details of Single-Family Solid Waste Rates

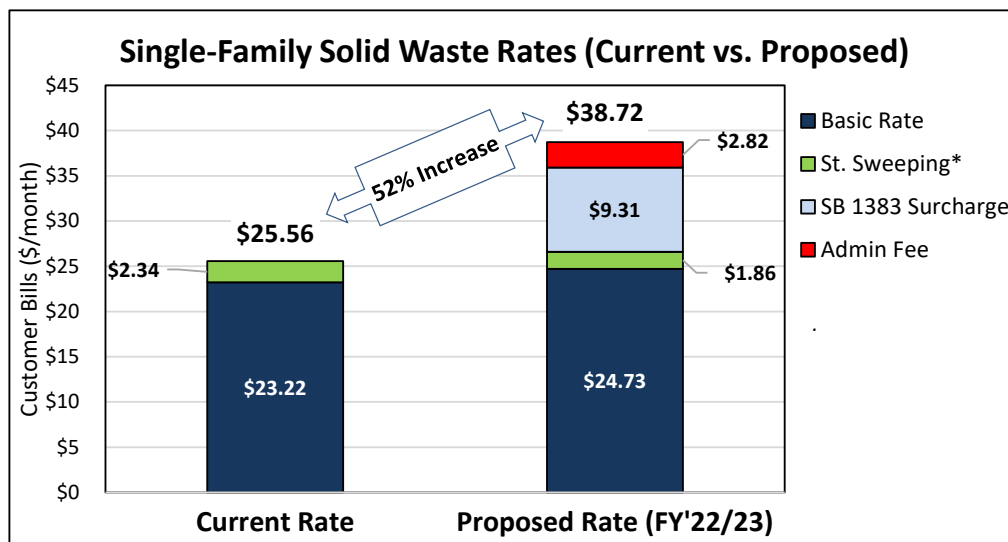
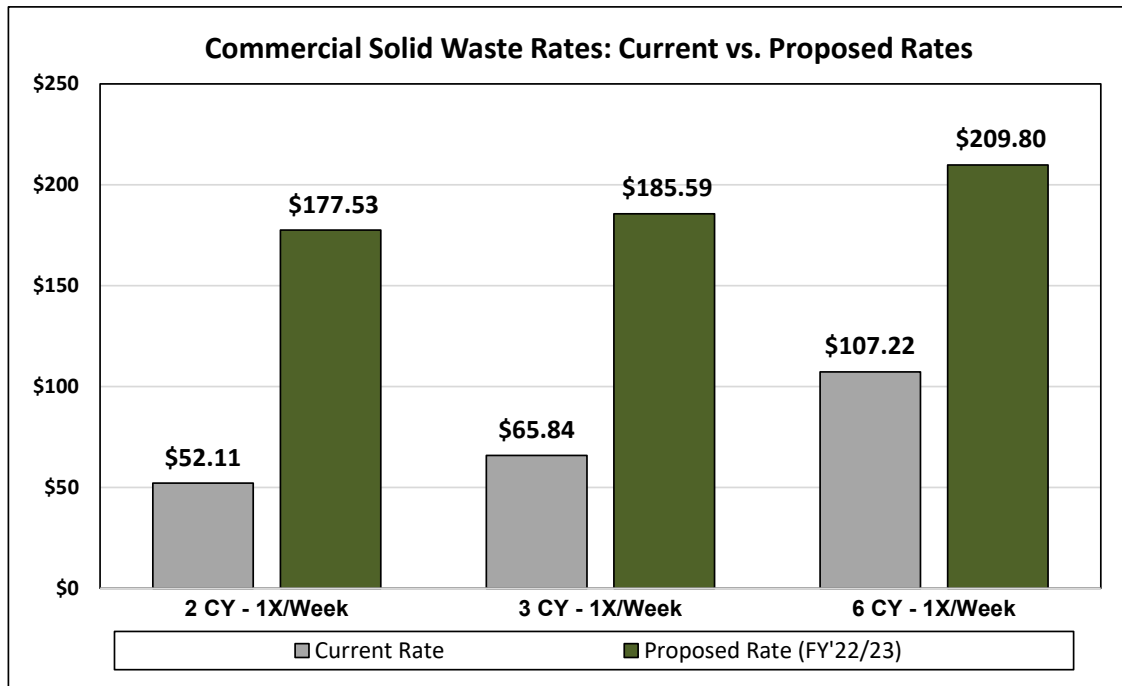


Figure 14. Solid Waste Rates - Commercial Bin Services



SECTION 3. RECOMMENDATIONS AND NEXT STEPS

A. Consultant Recommendations

NBS recommends the City take the following actions:

Approve and Accept this Study: NBS recommends the City Council formally approve and adopt this Study and its recommendations and proceed with the steps required to implement the proposed rates. This will provide documentation of the rate study analyses and the basis for analyzing potential changes to future rates.

Implement Recommended Levels of Rate Adjustments and Proposed Rates: The Council should direct City staff to mail out Prop 218 notices to customers. Then, based on successfully meeting the Prop 218 procedural requirements, the Council should proceed with implementing the 5-year schedule of proposed rates and rate adjustments previously shown in Figures 8 through 11.¹⁷ This will help ensure the continued financial health of the City's solid waste utility.

B. Next Steps

Annually Review Rates and Revenue – Any time an agency adopts new utility rates or rate structures, those new rates should be closely monitored over the next several years to ensure the revenue generated is sufficient to meet the annual revenue requirements. In particular, the new costs associated with implementation of SB 1383 mandates will need to be monitored.

Note: The attached Appendix provides more detailed information on the analysis of the solid waste revenue requirements and cost-of-service analyses that have been summarized in this report.

C. NBS' Principal Assumptions and Considerations

In preparing this report and the opinions and recommendations included herein, NBS has relied on several principal assumptions and considerations regarding financial matters, conditions, and events that may occur in the future. This information and these assumptions, including City's budgets, cost information and assumptions from Mid Valley and City staff were provided by sources we believe to be reliable, although NBS has not independently verified this data.

While we believe NBS' use of such information and assumptions is reasonable for the purpose of this report and its recommendations, some assumptions will invariably not materialize as stated herein and may vary significantly due to unanticipated events and circumstances. Therefore, the actual results can be expected to vary from those projected to the extent that actual future conditions differ from those assumed by us or provided to us by others.

¹⁷ Depending on whether the City intends to eliminate rates that have no customers or will be discontinued, the rates adopted would be either those shown in Figures 8 through 11 or the rate schedule shown in Appendix Table 30.

Appendix: Detailed Solid Waste Study Tables and Figures

The following tables and figures are presented in the order of the three rate study components previously mentioned in Section 1.B. (i.e., Financial Plan, Cost-of-Service Analysis, and Rate Design).

RATE REVENUE REQUIREMENTS SUMMARY	Projection	Budget	Projected					
	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Sources of Solid Waste Funds								
Disposal Collection Fees	\$ 5,035,107	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337
<i>Sub-Total Rate Revenues:</i>	\$ 5,035,107	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337	\$ 5,266,337
Street Sweeping Fees	\$ 444,880	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637
Other Charges for Services	65,281	16,545	16,545	16,545	16,545	16,545	16,545	16,545
Refunds	1,476	2,363	2,363	2,363	2,363	2,363	2,363	2,363
Fines & Forfeiture	79,197	115,818	115,818	115,818	115,818	115,818	115,818	115,818
Gains & Proceeds	2,747	-	-	-	-	-	-	-
Transfers In	226,431	293,742	-	-	-	-	-	-
Interest Income	24,425	17,446	21,407	-	-	-	3,970	17,355
<i>Sub-Total Non-Rate Revenue</i>	\$ 844,437	\$ 852,551	\$ 562,770	\$ 541,363	\$ 541,363	\$ 541,363	\$ 545,333	\$ 558,718
Total Solid Waste Revenues	\$ 5,879,544	\$ 6,118,888	\$ 5,829,107	\$ 5,807,700	\$ 5,807,700	\$ 5,807,700	\$ 5,811,670	\$ 5,825,055
Uses of Solid Waste Funds								
Operating Expenses:								
Salaries & Benefits	\$ 289,754	\$ 322,358	\$ 327,193	\$ 332,101	\$ 337,083	\$ 342,139	\$ 347,271	\$ 352,480
Materials & Services	4,839,643	4,630,784	4,769,391	4,912,055	5,058,997	5,210,344	5,366,228	5,526,787
Street Cleaning	560,560	504,904	516,021	527,417	539,098	551,074	563,351	575,937
Interfund Charges	470,530	470,006	484,106	498,629	513,588	528,996	544,866	561,212
Special Payments	17,519	79,303	80,493	81,700	82,925	84,169	85,432	86,713
Capital Outlay	375	135,375	139,436	143,619	147,928	152,366	156,937	161,645
Transfer Out	780,494	780,494	780,494	780,494	780,494	780,494	780,494	780,494
Total Solid Waste Operating Expenses	\$ 6,958,875	\$ 6,923,224	\$ 7,097,135	\$ 7,276,016	\$ 7,460,114	\$ 7,649,581	\$ 7,844,578	\$ 8,045,268
Annual Surplus/(Deficit) without rate increase	\$ (1,079,331)	\$ (804,336)	\$ (1,268,028)	\$ (1,468,316)	\$ (1,652,414)	\$ (1,841,881)	\$ (2,032,908)	\$ (2,220,213)
Net Revenue Req't.	\$ 6,114,438	\$ 6,070,673	\$ 6,534,365	\$ 6,734,653	\$ 6,918,751	\$ 7,108,218	\$ 7,299,245	\$ 7,486,550
Total Rate Revenue After Rate Increases	\$ 5,035,107	\$ 5,266,337	\$ 5,266,337	\$ 6,372,268	\$ 7,009,495	\$ 7,710,444	\$ 8,018,862	\$ 8,339,616
Annual Surplus/(Deficit) with rate increases	\$ (1,079,331)	\$ (804,336)	\$ (1,268,028)	\$ (362,386)	\$ 90,744	\$ 602,226	\$ 719,617	\$ 853,066
Rate Increase*	0.0%	0.0%	10.0%	10.0%	10.0%	10.0%	4.0%	4.0%
Additional Revenue from Rate Increases	\$0	\$0	\$0	\$1,105,931	\$1,743,158	\$2,444,107	\$2,752,525	\$3,073,279
Cumulative Rate Increases	0.0%	0.0%	10.0%	21.0%	33.1%	46.4%	52.3%	58.4%

*Note: Percent increase is calculated off the net revenue requirement. Customer rates do not directly reflect this percent increase due to cost-of-service adjustments.

TABLE 2: RESERVE FUND SUMMARY

SUMMARY OF RESERVE FUND ACTIVITY	Projection	Budget	Projected					
	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Total Beginning Cash ¹	\$ 3,034,560							
Solid Waste O&M Reserve Fund								
Beginning Reserve Balance	\$ 3,034,560	\$ 1,955,229	\$ 1,150,893	\$ (117,135)	\$ (479,521)	\$ (388,777)	\$ 213,448	\$ 933,065
Plus: Net Cash Flow (After Rate Increases)	(1,079,331)	(804,336)	(1,268,028)	(362,386)	90,744	602,226	719,617	853,066
Ending O&M Reserve Balance	\$ 1,955,229	\$ 1,150,893	\$ (117,135)	\$ (479,521)	\$ (388,777)	\$ 213,448	\$ 933,065	\$ 1,786,131
Total Ending Balance w/o Rate Increases	\$ 1,955,229	\$ 1,150,893	\$ (117,135)	\$ (1,585,452)	\$ (3,237,865)	\$ (5,079,747)	\$ (7,112,655)	\$ (9,332,868)
Minimum Ending Balance (30% O&M) ²	\$ 1,740,000	\$ 1,730,000	\$ 1,770,000	\$ 1,820,000	\$ 1,870,000	\$ 1,910,000	\$ 1,960,000	\$ 2,010,000
Ending vs. Target - Annual Surplus/(Deficit)	\$ 215,229	\$ (579,107)	\$ (1,887,135)	\$ (2,299,521)	\$ (2,258,777)	\$ (1,696,552)	\$ (1,026,935)	\$ (223,869)
Annual Interest Earnings Rate ³	0.00%	1.86%	1.86%	1.86%	1.86%	1.86%	1.86%	1.86%

1. Beginning cash balance for the Solid Waste Fund is found in CAFR. Source File: FY-2018-2019-Comprehensive-Annual-Financial-Report.pdf, Page 42.

2. NBS recommends Solid Waste Fund will maintain a minimum of 90 days operating budget in reserves.

3. District's actual or budgeted interest earnings are used in analysis for unrestricted reserves in FY 2020/21. For 2021/22 and beyond, interest earning rates are estimated at the 3-year average (FY '17/18 - '19/20) for funds invested in LAIF, per the California Treasurer's Office website, for the restricted reserves. Source: <https://www.treasurer.ca.gov/pmia-laif/historical/annual.asp>.

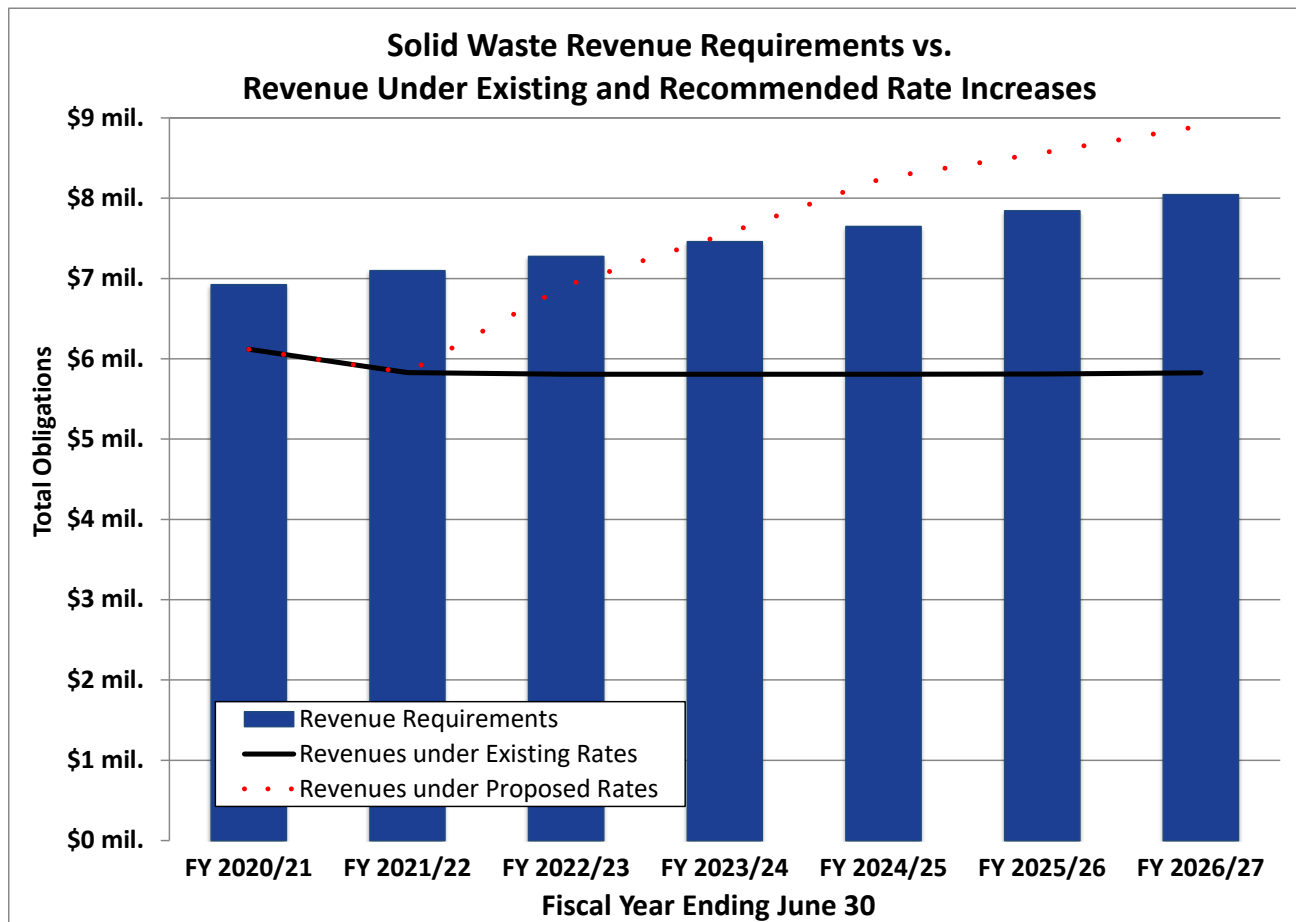


TABLE 3 : SOLID WASTE UTILITY REVENUE		Proj. Year-End	Budget			Prop 218 Rate Period				
FORECAST ¹										
SOURCES OF REVENUE	2020	2020	2021	2022	2023	2024	2025	2026	2027	
UTILITY BILLING/GARBAGE										
Refunds										
Refunds & Reimbursements	\$ -	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421
Subtotal	\$ -	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421
SOLID WASTE DISPOSAL										
Fines & Forfeiture										
Late Payment/Other Penalty	\$ 70,722	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764
Subtotal	\$ 70,722	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764	\$ 106,764
Charges for Services										
Disposal Collection Fees	\$ 5,035,107	\$5,266,337	\$5,266,337	\$5,266,337	\$5,266,337	\$5,266,337	\$5,266,337	\$5,266,337	\$5,266,337	\$5,266,337
Admin Fees	65,281	16,545	16,545	16,545	16,545	16,545	16,545	16,545	16,545	16,545
Subtotal	\$ 5,100,388	\$5,282,882	\$5,282,882	\$5,282,882	\$5,282,882	\$5,282,882	\$5,282,882	\$5,282,882	\$5,282,882	\$5,282,882
Interest										
Interest Income ²	\$ 24,425	\$ 17,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ 24,425	\$ 17,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Gains & Proceeds										
Sale of Real & Personal Property	\$ 2,747	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ 2,747	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Refunds										
Refunds & Reimbursements	\$ 63	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collection Recovery	1,257	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613
Subtotal	\$ 1,320	\$ 1,613	\$ 1,613	\$ 1,613	\$ 1,613	\$ 1,613	\$ 1,613	\$ 1,613	\$ 1,613	\$ 1,613
Transfers In										
Transfers In	\$ 67,311	\$ 67,311	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ 67,311	\$ 67,311	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SOLID WASTE RECYCLING										
Transfers In										
Transfers In	\$ -	\$ 67,311	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ -	\$ 67,311	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STREET CLEANING										
Fines & Forfeiture										
Late Payment/Other Penalty	\$ 8,475	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054
Subtotal	\$ 8,475	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054	\$ 9,054
Charges for Services										
Street Sweeping Fees	\$ 444,880	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637
Subtotal	\$ 444,880	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637	\$ 406,637
Gains & Proceeds										
Sale of Real & Personal Property	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Refunds										
Collection Recovery	\$ 156	\$ 329	\$ 329	\$ 329	\$ 329	\$ 329	\$ 329	\$ 329	\$ 329	\$ 329
Subtotal	\$ 156	\$ 329	\$ 329	\$ 329	\$ 329	\$ 329	\$ 329	\$ 329	\$ 329	\$ 329
Transfers In										
Transfers In	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers In										
Transfers In	\$ 109,120	\$ 109,120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ 109,120	\$ 109,120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total SOURCES OF REVENUE	\$ 5,879,544	\$6,118,888	\$5,807,700	\$5,807,700	\$5,807,700	\$5,807,700	\$5,807,700	\$5,807,700	\$5,807,700	\$5,807,700

TABLE 5 : SOLID WASTE UTILITY EXPENSE FORECAST ¹

				Prop 218 Rate Period				
DESCRIPTION	2020	2021	2022	2023	2024	2025	2026	2027
UTILITY BILLING/GARBAGE								
Salaries & Benefits								
Salaries/Full-Time	\$ 115,354	\$ 142,387	\$ 144,523	\$ 146,691	\$ 148,891	\$ 151,124	\$ 153,391	\$ 155,692
Salaries/Part-Time	10,370	-	-	-	-	-	-	-
Salaries/Overtime	199	-	-	-	-	-	-	-
Salaries - Leave Payout	545	-	-	-	-	-	-	-
Salaries - Auto & Expense Allo.	45	68	69	70	71	72	73	74
Public Employees Retirement	14,439	16,404	16,650	16,900	17,153	17,411	17,672	17,937
Long Term Disability Insurance	397	484	491	499	506	514	521	529
Life Insurance Premiums	155	181	184	186	189	192	195	198
Workers Compensation Insurance	12,732	12,488	12,675	12,865	13,058	13,254	13,453	13,655
Medicare Tax - Employer's Share	1,877	2,054	2,085	2,116	2,148	2,180	2,213	2,246
Unfunded Accrued Liability	22,536	25,629	26,013	26,404	26,800	27,202	27,610	28,024
Deferred Comp/Part-Time	395	-	-	-	-	-	-	-
Deferred Comp/Full-Time	4,545	4,988	5,063	5,139	5,216	5,294	5,373	5,454
Unemployment Insurance	719	536	544	552	560	569	577	586
Section 125 Benefit Allowance	45,688	40,627	41,236	41,855	42,483	43,120	43,767	44,423
Subtotal	\$ 229,996	\$ 245,846	\$ 249,534	\$ 253,277	\$ 257,076	\$ 260,932	\$ 264,846	\$ 268,819
Materials & Services								
Telephone & Fax Charges	\$ 4,000	\$ 4,000	\$ 4,120	\$ 4,244	\$ 4,371	\$ 4,502	\$ 4,637	\$ 4,776
Advertising/Bids & Notices	375	250	258	265	273	281	290	299
Advertising/Other	-	606	624	643	662	682	703	724
Office Supplies/Expendable	3,000	2,500	2,575	2,652	2,732	2,814	2,898	2,985
Postage/Other Mailing Charge	22,500	20,000	20,600	21,218	21,855	22,510	23,185	23,881
Vehicle Fuel, Supplies & Maintenance	813	750	758	765	773	780	788	796
Contracted Services	29,000	15,000	15,450	15,914	16,391	16,883	17,389	17,911
Bank Service Charges	175,000	15,000	15,450	15,914	16,391	16,883	17,389	17,911
Conference/Training/Education	1,500	1,500	1,545	1,591	1,639	1,688	1,739	1,791
Subtotal	\$ 236,188	\$ 59,606	\$ 61,379	\$ 63,205	\$ 65,086	\$ 67,023	\$ 69,018	\$ 71,073
Interfund Charges								
Central Su.	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2
Admin. Ove.	19,977	19,977	20,576	21,194	21,829	22,484	23,159	23,854
Vehicle Replacement	-	-	-	-	-	-	-	-
Vehicle Maintenance	-	-	-	-	-	-	-	-
Computer Maintenance	16,606	16,606	17,104	17,617	18,146	18,690	19,251	19,828
Computer R.	3,743	3,743	3,855	3,971	4,090	4,213	4,339	4,469
Software	-	-	-	-	-	-	-	-
Motor Renta.	1,485	1,485	1,530	1,575	1,623	1,671	1,722	1,773
Subtotal	\$ 41,813	\$ 41,813	\$ 43,067	\$ 44,359	\$ 45,690	\$ 47,061	\$ 48,473	\$ 49,927
Special Payments								
OPEB Obligation Expense	\$ 825	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Pension Expense-GASB 68	-	38,606	39,185	39,773	40,369	40,975	41,590	42,213
Subtotal	\$ 825	\$ 38,606	\$ 39,185	\$ 39,773	\$ 40,369	\$ 40,975	\$ 41,590	\$ 42,213
Capital Outlay								
Vehicles & Equipment	\$ 375	\$ 375	\$ 386	\$ 398	\$ 410	\$ 422	\$ 435	\$ 448
Subtotal	\$ 375	\$ 375	\$ 386	\$ 398	\$ 410	\$ 422	\$ 435	\$ 448
Transfer Out								
Transfer Out - Insurance Reserve	\$ 4,695	\$ 4,695	\$ 4,695	\$ 4,695	\$ 4,695	\$ 4,695	\$ 4,695	\$ 4,695
Subtotal	\$ 4,695	\$ 4,695	\$ 4,695	\$ 4,695	\$ 4,695	\$ 4,695	\$ 4,695	\$ 4,695
Sub-Total: Utility Billing/Garbage	\$ 513,892	\$ 390,941	\$ 398,247	\$ 405,707	\$ 413,327	\$ 421,108	\$ 429,057	\$ 437,175

TABLE 6 : SOLID WASTE UTILITY EXPENSE FORECAST, continued ¹

Prop 218 Rate Period

DESCRIPTION	2020	2021	2022	2023	2024	2025	2026	2027
SOLID WASTE DISPOSAL								
Salaries & Benefits								
Salaries/Full-Time	\$ 30,376	\$ 48,117	\$ 48,839	\$ 49,571	\$ 50,315	\$ 51,070	\$ 51,836	\$ 52,613
Salaries/Part-Time	5,963	-	-	-	-	-	-	-
Salaries/Overtime	3	-	-	-	-	-	-	-
Salaries - Leave Payout	-	-	-	-	-	-	-	-
Salaries/Uniform Pay	-	-	-	-	-	-	-	-
Salaries - Auto & Expense Allo.	-	-	-	-	-	-	-	-
Public Employees Retirement	3,887	5,948	6,037	6,128	6,220	6,313	6,408	6,504
Long Term Disability Insurance	99	143	145	147	150	152	154	156
Life Insurance Premiums	39	52	53	54	54	55	56	57
Workers Compensation Insurance	3,676	4,576	4,645	4,714	4,785	4,857	4,930	5,004
Medicare Tax - Employer's Share	539	710	721	731	742	754	765	776
Unfunded Accrued Liability	6,093	6,926	7,030	7,135	7,242	7,351	7,461	7,573
Deferred Comp/Part-Time	224	-	-	-	-	-	-	-
Deferred Comp/Full-Time	911	1,052	1,068	1,084	1,100	1,117	1,133	1,150
Unemployment Insurance	191	136	138	140	142	144	147	149
Section 125 Benefit Allowance	7,315	8,793	8,925	9,059	9,195	9,333	9,473	9,615
Subtotal	\$ 59,316	\$ 76,453	\$ 77,600	\$ 78,764	\$ 79,945	\$ 81,144	\$ 82,362	\$ 83,597
Materials & Services								
Gas & Electric Utilities	\$ 11,500	\$ 12,000	\$ 12,060	\$ 12,120	\$ 12,181	\$ 12,242	\$ 12,303	\$ 12,365
Telephone & Fax Charges	1,818	1,500	1,545	1,591	1,639	1,688	1,739	1,791
Advertising/Other	12,000	12,500	12,875	13,261	13,659	14,069	14,491	14,926
Office Supplies/Expendable	350	450	464	477	492	506	522	537
Postage/Other Mailing Charge	200	50	52	53	55	56	58	60
Vehicle Fuel, Supplies & Maintenance	-	5,000	5,050	5,101	5,152	5,203	5,255	5,308
Contracted Services	4,545,950	4,500,000	4,635,000	4,774,050	4,917,272	5,064,790	5,216,733	5,373,235
Bank Service Charges	3	5	5	5	5	6	6	6
Maintenance/Other Supplies	-	150	155	159	164	169	174	179
Subtotal	\$ 4,571,821	\$ 4,531,655	\$ 4,667,205	\$ 4,806,818	\$ 4,950,618	\$ 5,098,729	\$ 5,251,281	\$ 5,408,406
Interfund Charges								
Facility Maintenance	\$ 24,144	\$ 23,620	\$ 24,329	\$ 25,058	\$ 25,810	\$ 26,585	\$ 27,382	\$ 28,204
Central Su.	15	15	15	16	16	17	17	18
Cost Distribution	9,517	9,517	9,803	10,097	10,399	10,711	11,033	11,364
Admin. Ove.	243,939	243,939	251,257	258,795	266,559	274,555	282,792	291,276
Vehicle Replacement	10,717	10,717	11,039	11,370	11,711	12,062	12,424	12,797
Vehicle Maintenance	12,200	12,200	12,566	12,943	13,331	13,731	14,143	14,567
Route/Roll-Off	108,150	108,150	111,395	114,736	118,178	121,724	125,375	129,137
Computer Maintenance	16,150	16,150	16,635	17,134	17,648	18,177	18,722	19,284
Computer R.	3,623	3,623	3,732	3,844	3,959	4,078	4,200	4,326
Software	262	262	270	278	286	295	304	313
Subtotal	\$ 428,717	\$ 428,193	\$ 441,039	\$ 454,270	\$ 467,898	\$ 481,935	\$ 496,393	\$ 511,285
Special Payments								
Liability/Property Insurance	\$ 16,694	\$ 18,596	\$ 18,875	\$ 19,158	\$ 19,445	\$ 19,737	\$ 20,033	\$ 20,334
Pension Expense-GASB 68	-	18,056	18,327	18,602	18,881	19,164	19,451	19,743
Subtotal	\$ 16,694	\$ 36,652	\$ 37,202	\$ 37,760	\$ 38,326	\$ 38,901	\$ 39,485	\$ 40,077
Capital Outlay								
Vehicles & Equipment	\$ -	\$ 135,000	\$ 139,050	\$ 143,222	\$ 147,518	\$ 151,944	\$ 156,502	\$ 161,197
Subtotal	\$ -	\$ 135,000	\$ 139,050	\$ 143,222	\$ 147,518	\$ 151,944	\$ 156,502	\$ 161,197
Transfer Out								
Transfer Out	\$ 770,288	\$ 770,288	\$ 770,288	\$ 770,288	\$ 770,288	\$ 770,288	\$ 770,288	\$ 770,288
Transfer Out-Insurance Reserve	4,373	4,373	4,373	4,373	4,373	4,373	4,373	4,373
Subtotal	\$ 774,661	\$ 774,661	\$ 774,661	\$ 774,661	\$ 774,661	\$ 774,661	\$ 774,661	\$ 774,661
Sub-Total: Solid Waste Disposal	\$ 5,851,209	\$ 5,982,614	\$ 6,136,756	\$ 6,295,494	\$ 6,458,966	\$ 6,627,314	\$ 6,800,683	\$ 6,979,223
Depreciation (Non-cash item left out of analysis) ⁴								
Depreciation/Replacement	\$ 5,458	\$ 5,458	\$ 5,622	\$ 5,790	\$ 5,964	\$ 6,143	\$ 6,327	\$ 6,517
Subtotal	\$ 5,458	\$ 5,458	\$ 5,622	\$ 5,790	\$ 5,964	\$ 6,143	\$ 6,327	\$ 6,517

TABLE 7 : SOLID WASTE UTILITY EXPENSE FORECAST, continued ¹

Prop 218 Rate Period

DESCRIPTION	2020	2021	2022	2023	2024	2025	2026	2027
SOLID WASTE RECYCLING								
Salaries & Benefits								
Public Employees Retirement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Materials & Services								
Telephone & Fax Charges	\$ -	\$ (58)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Advertising/Other	-	-	-	-	-	-	-	-
Office Supplies/Expendable	-	-	-	-	-	-	-	-
Postage/Other Mailing Charge	-	-	-	-	-	-	-	-
Contracted Services	51	(38)	-	-	-	-	-	-
Conference/Training/Education	-	-	-	-	-	-	-	-
Maintenance/Other Supplies	-	-	-	-	-	-	-	-
Subtotal	\$ 51	\$ (96)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interfund Charges								
Cost Distribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Admin. Ove.	-	-	-	-	-	-	-	-
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special Payments								
Liability/Property Insurance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub-Total: Solid Waste Recycling	\$ 51	\$ (96)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

TABLE 8 : SOLID WASTE UTILITY EXPENSE FORECAST, continued ¹

Prop 218 Rate Period

DESCRIPTION	2020	2021	2022	2023	2024	2025	2026	2027
STREET CLEANING								
Salaries & Benefits								
Salaries/Full-Time	\$ 174,702	\$ 20,502	\$ 20,810	\$ 21,122	\$ 21,438	\$ 21,760	\$ 22,086	\$ 22,418
Salaries/Part-Time	10,883	-	-	-	-	-	-	-
Salaries/Overtime	14,952	11,250	11,419	11,590	11,764	11,940	12,119	12,301
Salaries - Leave Payout	6,571	-	-	-	-	-	-	-
Salaries/Uniform Pay	800	588	597	606	615	624	633	643
Salaries - Auto & Expense Allo.	-	-	-	-	-	-	-	-
Public Employees Retirement	19,262	25,181	25,559	25,942	26,331	26,726	27,127	27,534
Long Term Disability Insurance	459	566	574	583	592	601	610	619
Life Insurance Premiums	206	251	255	259	262	266	270	274
Workers Compensation Insurance	16,017	17,627	17,891	18,160	18,432	18,709	18,989	19,274
Medicare Tax - Employer's Share	2,428	2,820	2,862	2,905	2,949	2,993	3,038	3,084
Unfunded Accrued Liability	33,060	37,611	38,175	38,748	39,329	39,919	40,518	41,125
Deferred Comp/Part-Time	409	-	-	-	-	-	-	-
Deferred Comp/Full-Time	5,227	6,441	6,538	6,636	6,735	6,836	6,939	7,043
Unemployment Insurance	632	695	705	716	727	738	749	760
Section 125 Benefit Allowance	33,783	40,430	41,036	41,652	42,277	42,911	43,555	44,208
Subtotal	\$ 319,391	\$ 163,962	\$ 166,421	\$ 168,918	\$ 171,452	\$ 174,023	\$ 176,634	\$ 179,283
Materials & Services								
Telephone & Fax Charges	\$ 39	\$ 40	\$ 41	\$ 42	\$ 44	\$ 45	\$ 46	\$ 48
Vehicle Fuel, Supplies & Maintenance	29,297	30,000	30,300	30,603	30,909	31,218	31,530	31,846
Contracted Services	-	49,180	50,655	52,175	53,740	55,353	57,013	58,723
Maintenance/Other Supplies	15,000	15,000	15,450	15,914	16,391	16,883	17,389	17,911
Subtotal	\$ 44,336	\$ 94,220	\$ 96,447	\$ 98,734	\$ 101,084	\$ 103,498	\$ 105,979	\$ 108,528
Interfund Charges								
Central Su.	\$ 380	\$ 380	\$ 391	\$ 403	\$ 415	\$ 428	\$ 441	\$ 454
Admin. Ove.	20,623	20,623	21,242	21,879	22,535	23,211	23,908	24,625
Vehicle Replacement	91,404	91,404	94,146	96,971	99,880	102,876	105,962	109,141
Vehicle Maintenance	74,705	74,705	76,946	79,255	81,632	84,081	86,604	89,202
Subtotal	\$ 187,112	\$ 187,112	\$ 192,725	\$ 198,507	\$ 204,462	\$ 210,596	\$ 216,914	\$ 223,422
Special Payments								
Liability/Property Insurance	\$ 4,637	\$ 5,166	\$ 5,243	\$ 5,322	\$ 5,402	\$ 5,483	\$ 5,565	\$ 5,649
Pension Expense-GASB 68	-	49,360	50,100	50,852	51,615	52,389	53,175	53,972
Subtotal	\$ 4,637	\$ 54,526	\$ 55,344	\$ 56,174	\$ 57,017	\$ 57,872	\$ 58,740	\$ 59,621
Transfer Out								
Transfer Out-Insurance Reserve	\$ 5,084	\$ 5,084	\$ 5,084	\$ 5,084	\$ 5,084	\$ 5,084	\$ 5,084	\$ 5,084
Subtotal	\$ 5,084	\$ 5,084	\$ 5,084	\$ 5,084	\$ 5,084	\$ 5,084	\$ 5,084	\$ 5,084
Sub-Total: Street Cleaning	\$ 560,560	\$ 504,904	\$ 516,021	\$ 527,417	\$ 539,098	\$ 551,074	\$ 563,351	\$ 575,937

TABLE 9: SOLID WASTE UTILITY EXPENSE FORECAST, continued ¹

Prop 218 Rate Period

DESCRIPTION	2020	2021	2022	2023	2024	2025	2026	2027
BEVERAGE CONTAINER RECYCLING								
Materials & Services								
Advertising/Other	\$ 16,583	\$ 16,039	\$ 16,520	\$ 17,016	\$ 17,526	\$ 18,052	\$ 18,594	\$ 19,151
Conference/Training/Education	-	600	618	637	656	675	696	716
Subtotal	\$ 16,583	\$ 16,639	\$ 17,138	\$ 17,652	\$ 18,182	\$ 18,727	\$ 19,289	\$ 19,868
Sub-Total: Beverage Container Recycling	\$ 16,583	\$ 16,639	\$ 17,138	\$ 17,652	\$ 18,182	\$ 18,727	\$ 19,289	\$ 19,868

TABLE 10 SOLID WASTE UTILITY EXPENSE FORECAST, continued ¹

DESCRIPTION	2020	2021	2022	2023	2024	2025	2026	2027
USED OIL RECYCLING								
Materials & Services								
Advertising/Other	\$ -	\$ 9,900	\$ 10,197	\$ 10,503	\$ 10,818	\$ 11,143	\$ 11,477	\$ 11,821
Subtotal	\$ -	\$ 9,900	\$ 10,197	\$ 10,503	\$ 10,818	\$ 11,143	\$ 11,477	\$ 11,821
Sub-Total: Used Oil Recycling	\$ -	\$ 9,900	\$ 10,197	\$ 10,503	\$ 10,818	\$ 11,143	\$ 11,477	\$ 11,821

TABLE 11 SOLID WASTE UTILITY EXPENSE FORECAST, continued ¹

DESCRIPTION	2020	2021	2022	2023	2024	2025	2026	2027
TIRE CLEAN UP								
Salaries & Benefits								
Salaries/Full-Time	\$ 345	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Salaries/Overtime	-	-	-	-	-	-	-	-
Salaries - Leave Payout	-	-	-	-	-	-	-	-
Salaries/Uniform Pay	-	-	-	-	-	-	-	-
Public Employees Retirement	33	-	-	-	-	-	-	-
Long Term Disability Insurance	-	-	-	-	-	-	-	-
Life Insurance Premiums	-	-	-	-	-	-	-	-
Workers Compensation Insurance	35	-	-	-	-	-	-	-
Medicare Tax - Employer's Share	5	-	-	-	-	-	-	-
Unfunded Accrued Liability	-	59	60	61	62	63	64	65
Deferred Comp/Full-Time	14	-	-	-	-	-	-	-
Unemployment Insurance	10	-	-	-	-	-	-	-
Section 125 Benefit Allowance	-	-	-	-	-	-	-	-
Subtotal	\$ 442	\$ 59	\$ 60	\$ 61	\$ 62	\$ 63	\$ 64	\$ 65
Materials & Services								
Contracted Services	\$ 15,000	\$ 13,080	\$ 13,472	\$ 13,877	\$ 14,293	\$ 14,722	\$ 15,163	\$ 15,618
Maintenance/Other Supplies	-	-	-	-	-	-	-	-
Subtotal	\$ 15,000	\$ 13,080	\$ 13,472	\$ 13,877	\$ 14,293	\$ 14,722	\$ 15,163	\$ 15,618
Special Payments								
Pension Expense-GASB 68	\$ -	\$ 4,045	\$ 4,106	\$ 4,167	\$ 4,230	\$ 4,293	\$ 4,358	\$ 4,423
Subtotal	\$ -	\$ 4,045	\$ 4,106	\$ 4,167	\$ 4,230	\$ 4,293	\$ 4,358	\$ 4,423
Transfer Out								
Transfer Out-Insurance Reserve	\$ 1,138	\$ 1,138	\$ 1,138	\$ 1,138	\$ 1,138	\$ 1,138	\$ 1,138	\$ 1,138
Subtotal	\$ 1,138	\$ 1,138	\$ 1,138	\$ 1,138	\$ 1,138	\$ 1,138	\$ 1,138	\$ 1,138
Sub-Total: Tire Clean Up	\$ 16,580	\$ 18,322	\$ 18,776	\$ 19,243	\$ 19,722	\$ 20,215	\$ 20,722	\$ 21,244
Total Expenses	\$ 6,958,875	\$ 6,923,224	\$ 7,097,135	\$ 7,276,016	\$ 7,460,114	\$ 7,649,581	\$ 7,844,578	\$ 8,045,268

TABLE 13: SOURCES AND USES OF CAPITAL FUNDS

CAPITAL FUNDING FORECAST	Budget	Budget	Projected					
Funding Sources:	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Grants ¹	\$ 86,142	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
State Revolving Fund Loan	-	-	-	-	-	-	-	-
Revenue Bond	-	-	-	-	-	-	-	-
Use of Rate Revenue	-	-	-	-	-	-	-	-
Grand Total: Capital Funding Sources	\$ 86,142	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Uses of Capital Funds:								
Effective Annual Funding of Capital Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Funding Surplus (Deficiency)	\$ (86,142)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

1. Grant Funding is per source file: Enterprise Funds Budget 2020-21.pdf, pages 51-53.

Customer Data - Tonnage, Account Count and Amount Billed						
Count of December 2020 Number of Accounts						
Sum of Account Count		MVD Rate Sheet		Current City Rates		2020 Billing Amount
2020 December		Rate	Monthly Revenue	Rate	Monthly Revenue	
Solid Waste Disposal						
SINGLE FAMILY REFUSE 3 CANS	12,371	\$15.35	\$189,895	\$23.22	\$287,255	\$ 290,784
SINGLE FAMILY W/O GREEN	52				\$972	\$ 972
RESIDENTIAL CARRYOUT	1				\$53	\$ 53
ADDITIONAL REFUSE PICK UP - RESIDENTIAL						
MULTI FAMILY FIRST TWO UNITS	334	\$15.35	\$5,127	\$23.22	\$7,755	\$ 17,612
MULTI FAMILY MORE THAN 2 UNITS	3				\$2,846	\$ 2,846
ADDITIONAL BLUE CAN	10				\$76	\$ 76
ADDITIONAL GRAY CAN	10				\$927	\$ 927
ADDITIONAL GREEN CAN	9				\$154	\$ 154
COMMERCIAL CARRYOUT	3	\$29.57	\$89	\$40.85	\$123	\$ 173
COMMERCIAL CARRYOUT ADDITIONAL	-					
COMMERCIAL GRAY ONLY	2					
COMMERCIAL REFUSE	135	\$17.72	\$2,392	\$29.46	\$3,977	\$ 4,728
COMMERCIAL REFUSE 1/2	2				\$44	\$ 44
COMMERCIAL REFUSE ADDL	3				\$245	\$ 245
ORGANIC WASTE 2 CUBIC YARD 3X WK	1	\$126.93	\$127	\$118.54	\$119	\$ 356
ORGANIC WASTE 2 CUBIC YARD BIN 1X WK	1	\$45.26	\$45	\$42.18	\$42	\$ 337
ORGANIC WASTE 2 CUBIC YD 2X WK	1	\$82.78	\$83	\$77.36	\$77	\$ 387
ORGANIC WASTE 3 CUBIC YD 5X WK	-					\$ -
ORGANIC WASTE 96 GAL 1X WK	1	\$11.03	\$11	\$10.28	\$10	\$ 21
ORGANIC WASTE 96 GAL 2X WK	-				\$51	\$ 51
RECYCLE 2YD 1X WK	1	\$34.75	\$35	\$31.22	\$31	\$ 4,574
RECYCLE 2YD 2X WK	-				\$1,344	\$ 1,344
RECYCLE 2YD 3X WK	-				\$323	\$ 323
RECYCLE 3YD 1X WK	-				\$3,267	\$ 3,267
RECYCLE 3YD 2X WK	-				\$2,327	\$ 2,327
RECYCLE 3YD 3X WK	1	\$139.77	\$140	\$109.38	\$109	\$ 984
RECYCLE 4YD 1X WK	1	\$53.35	\$53	\$47.92	\$48	\$ 2,013
RECYCLE 4YD 2X WK	-				\$1,430	\$ 1,430
RECYCLE 4YD 3X WK	-				\$262	\$ 262
RECYCLE 6YD 1X WK	-				\$323	\$ 323
RECYCLE 6YD 2X WK	-				\$945	\$ 945
RECYCLE 6YD 3X WK	1	\$204.69	\$205	\$171.54	\$172	\$ 1,715
REFUSE SVC 2YD 1X WK	180	\$55.08	\$9,914	\$52.11	\$9,380	\$ 13,002
REFUSE SVC 2YD 2X WK	18	\$103.05	\$1,855	\$102.40	\$1,843	\$ 2,765
REFUSE SVC 2YD 3X WK	4	\$152.20	\$609	\$151.25	\$605	\$ 756
REFUSE SVC 2YD 4X WK	-				\$203	\$ 203
REFUSE SVC 2YD 5X WK	-				\$253	\$ 253
REFUSE SVC 3YD 1X WK	97	\$67.53	\$6,550	\$65.84	\$6,386	\$ 8,820
REFUSE SVC 3YD 2X WK	56	\$127.94	\$7,165	\$130.34	\$7,299	\$ 15,945
REFUSE SVC 3YD 3X WK	18	\$188.35	\$3,390	\$194.44	\$3,500	\$ 8,420
REFUSE SVC 3YD 4X WK	3	\$248.75	\$746	\$258.72	\$776	\$ 1,035
REFUSE SVC 3YD 5X WK	1	\$337.58	\$338	\$323.14	\$323	\$ 969
REFUSE SVC 4YD 1X WK	35	\$77.29	\$2,705	\$79.73	\$2,791	\$ 4,545
REFUSE SVC 4YD 2X WK	27	\$149.25	\$4,030	\$157.87	\$4,262	\$ 11,682
REFUSE SVC 4YD 3X WK	10	\$304.72	\$3,047	\$272.25	\$2,723	\$ 8,440
REFUSE SVC 4YD 4X WK	4	\$433.54	\$1,734	\$333.10	\$1,332	\$ 1,332
REFUSE SVC 4YD 5X WK	2	\$480.92	\$962	\$392.17	\$784	\$ 3,137
					\$94	\$ 94
REFUSE SVC 5YD 3X WK	2	\$295.84	\$592	\$276.11	\$552	\$ 552
REFUSE SVC 6YD 1X WK	26	\$113.72	\$2,957	\$107.22	\$2,788	\$ 4,342
REFUSE SVC 6YD 2X WK	17	\$216.76	\$3,685	\$213.04	\$3,622	\$ 8,841
REFUSE SVC 6YD 3X WK	5	\$319.82	\$1,599	\$318.78	\$1,594	\$ 3,188
					\$424	\$ 424
REFUSE SVC 6YD 5X WK	1	\$525.03	\$525	\$529.93	\$530	\$ 2,650
REFUSE SVC 3YD 3X WK COMP	-				\$389	\$ 389
REFUSE SVC 4YD 1XWK COMPACTOR	-				\$255	\$ 255
TRASH CANS ALL 3	-				\$945	\$ 945
TRASH CANS EACH	-				\$1,715	\$ 1,715
Grand Total	13,449					
REFUSE LOCKING SERVICE	124				\$1,860	\$ 1,860
Source file: 2020 DEC MUNIS Billing_Manipulated.xlsx, Solid Waste tab.						
Total Monthly Revenue			\$250,604		\$367,374	\$ 443,175
Total Annual Revenue			\$3,007,249		\$4,408,487	\$ 5,318,102

2020 Billing Amount					
Sum of bd_original_amount	MONTH				
	1				
Solid Waste Disposal					
SINGLE FAMILY REFUSE 3 CANS	\$ 290,784				
SINGLE FAMILY W/O GREEN	\$ 972				
RESIDENTIAL CARRYOUT	\$ 53				
ADDITIONAL REFUSE PICK UP - RESIDENTIAL					
ADDITIONAL BLUE CAN	\$ 76				
ADDITIONAL GRAY CAN	\$ 927				
ADDITIONAL GREEN CAN	\$ 154				
MULTI FAMILY FIRST TWO UNITS	\$ 17,612				
MULTI FAMILY MORE THAN 2 UNITS	\$ 2,846				
COMMERCIAL CARRYOUT	\$ 173				
COMMERCIAL CARRYOUT ADDITIONAL					
COMMERCIAL GRAY ONLY					
COMMERCIAL REFUSE	\$ 4,728				
COMMERCIAL REFUSE 1/2	\$ 44				
COMMERCIAL REFUSE ADDL	\$ 245				
REFUSE SVC 2YD 1X WK	\$ 13,002				
REFUSE SVC 2YD 2X WK	\$ 2,765				
REFUSE SVC 2YD 3X WK	\$ 756				
REFUSE SVC 2YD 4X WK	\$ 203				
REFUSE SVC 2YD 5X WK	\$ 253				
REFUSE SVC 3YD 1X WK	\$ 8,820				
REFUSE SVC 3YD 2X WK	\$ 15,945				
REFUSE SVC 3YD 3X WK	\$ 8,420				
REFUSE SVC 3YD 4X WK	\$ 1,035				
REFUSE SVC 3YD 5X WK	\$ 969				
REFUSE SVC 4YD 1X WK	\$ 4,545				
REFUSE SVC 4YD 2X WK	\$ 11,682				
REFUSE SVC 4YD 3X WK	\$ 8,440				
REFUSE SVC 4YD 4X WK	\$ 1,332				
REFUSE SVC 4YD 5X WK	\$ 3,137				
REFUSE SVC 5YD 1X WK	\$ 94				
REFUSE SVC 5YD 3X WK	\$ 552				
REFUSE SVC 6YD 1X WK	\$ 4,342				
REFUSE SVC 6YD 2X WK	\$ 8,841				
REFUSE SVC 6YD 3X WK	\$ 3,188				
REFUSE SVC 6YD 4X WK	\$ 424				
REFUSE SVC 6YD 5X WK	\$ 2,650				
REFUSE SVC 3YD 3X WK COMP	\$ 389				
REFUSE SVC 4YD 1XWK COMPACTOR	\$ 255				
ORGANIC WASTE 2 CUBIC YARD 3X WK	\$ 356				
ORGANIC WASTE 2 CUBIC YARD BIN 1X WK	\$ 337				
ORGANIC WASTE 2 CUBIC YD 2X WK	\$ 387				
ORGANIC WASTE 3 CUBIC YD 5X WK					
ORGANIC WASTE 96 GAL 1X WK	\$ 21				
ORGANIC WASTE 96 GAL 2X WK	\$ 51				
RECYCLE 2YD 1X WK	\$ 4,574				
RECYCLE 2YD 2X WK	\$ 1,344				
RECYCLE 2YD 3X WK	\$ 323				
RECYCLE 3YD 1X WK	\$ 3,267				
RECYCLE 3YD 2X WK	\$ 2,327				
RECYCLE 3YD 3X WK	\$ 984				
RECYCLE 4YD 1X WK	\$ 2,013				
RECYCLE 4YD 2X WK	\$ 1,430				
RECYCLE 4YD 3X WK	\$ 262				
RECYCLE 6YD 1X WK	\$ 323				
RECYCLE 6YD 2X WK	\$ 945				
RECYCLE 6YD 3X WK	\$ 1,715				
REFUSE LOCKING SERVICE	\$ 1,860				
TRASH CANS ALL 3					
TRASH CANS EACH	\$ -				
Grand Total	\$ 443,175				
Source file: MAIS Meter Usage 12 Months_Manipulated_02.06.21.xlsx, RevenuePivots 1-10 tab.					
Source file: 2020 SEP-NOV MUNIS Billing2_Manipulated.xlsx, Solid Waste tab.					
Source file: 2020 DEC MUNIS Billing_Manipulated.xlsx, Solid Waste tab.					

TABLE 27 : Summary of FY'21/22 Solid Waste Costs

Summary of FY'21/22 Solid Waste Costs		Notes:
Net Rev. Reqts. (from Financial Plan) less Admin Fees (already included in the above) Street Sweeping Costs	\$5,792,971 (\$400,583) \$406,637	From Fin. Plan (Figure 1) - Includes proposed rate increase ¹ Separately allocated to Single- and Multi-Family Resid. ² Offsets current Street Sweeping fees being collected ³
Net Rev. Reqts. - Including Street Sweeping	\$5,799,025	Allocated 66% to Residential, 34% Commercial
SB 1383 Surcharge (35%)	\$2,029,659	35% of Net Rev. Reqts.
Net Rev. Reqts. - Incl. Street Sweeping & Surcharge	\$7,828,683	Excludes Admin Fees separately applied to Residential

1. Assume adoption April 1, 2022 means only 25% of the rate increase is collected in FY'21/22.

2. Calculated as \$2.33/account times residential containers to which this fee applies. This is applied separately to these customers.

3. Street Sweeping fees from the Financial Plan. There are other street sweeping costs already included in Net Revenue Requirements.

TABLE 28 : Proposed Rate Revenue - FY 2021/22

Proposed Rate Revenue - FY 2021/22			INCLUDING STREET SWEEPING & 35% SURCHARGE		
Customer Class	Rate Revenue ¹	% of Total ²	35% Surcharge	Total Revenue	% of Total
Single Family Residential	\$3,692,620	63.7%	\$1,292,417	\$4,985,038	63.7%
Multi-Family Residential	\$134,736	2.3%	\$47,157	\$181,893	2.3%
Total Residential	\$3,827,356	66.0%	\$1,339,575	\$5,166,931	66.0%
Commercial 96-Gal. Service	\$68,453	1.2%	\$23,959	\$92,412	1.2%
Commercial Bin Service	\$1,519,344	26.2%	\$531,770	\$2,051,114	26.2%
Commercial Recycling	\$352,275	6.1%	\$123,296	\$475,572	6.1%
Commercial Compactor	\$2,262	0.0%	\$792	\$3,053	0.0%
Commercial Organics	\$29,334	0.5%	\$10,267	\$39,601	0.5%
Total Commercial	\$1,971,668	34.0%	\$690,084	\$2,661,752	34.0%
Total Revenue - FY 2021/22	\$5,799,024	100.0%	\$2,029,658	\$7,828,682	100.0%

1. Total Revenue based on Proposed Rates and number of accounts as of January 2021, including rate increases and Street Sweeping costs.

2. Overall allocation of residential vs. commercial revenue requirements is about 66%/34% per Mid Valley Disposal.

3. Admin Service Fees of \$2.33/residential account will be separately added to residential customers rates.

TABLE 29 :

Allocation Factors Used in Calculating Commercial Rates						
A. Allocation of Collection/Disposal Costs:				B. % Incr. in COLLECTION Costs (vs. 2 CY):		
Collection	80.0%	Mid-Valley		Bin Size	Comm. FL Bins	Mo. Container
Disposal	20.0%	Estimates		96 gal.	47.5%	NA
C. Base Commercial Bin Service Rates (\$/Mo.)				2.0 CY	100.0%	\$6.00
Base Collection Charge (2 CY @ 1X/Week)		\$	75.83	3.0 CY	100.0%	\$9.00
Base Disposal Charge (2 CY @ 1X/Week)			\$15.17	4.0 CY	100.0%	\$12.00
Base Charge (2 CY @ 1X/Week)		\$	91.00	5.0 CY	100.0%	\$15.00
Base Recycl. Disp Charge (2 CY @ 1X/Wk)		\$	-	6.0 CY	100.0%	\$18.00
Base Organics. Disp Charge (2 CY @ 1X/Wk)		\$	-	Efficiency Adjmnt:	0%	100%
D. MVD Compactor Density Factor:						300.0%
E. True-Up Factor (Equalizes Proposed Rates w/o Increases to Current Rates):						
Residential/MFR/Commercial 96-gal. Service Rate Revenue						48.524%
Commercial Bin Rate Revenue						130.283%
Commercial Non-Bin Rate Revenue						53.568%
AB 1383 Surcharge		Target = 35%				100.000%
Revenue Generated by Surcharge:						\$2,029,659

TABLE 30 : Analysis of Current and Proposed Residential and Commercial Rates

Analysis of Current and Proposed Residential and Commercial Rates															
Customer Classes/Service Type	What Mid Valley is Paid	Current Rates		Calculations of Proposed Rates							No. Units	Rev. Est. W/O Surcharge		Rev. Est. WITH Surcharge	
		FY 2019/20	Mo. Revenue	Collection \$	Bin Replacement	Disposal \$	FY 2020/21 Unadjusted	FY 2020/21 Adjusted	AB 1383 Surcharge	New Rate w/ Surcharge		Mo. Revenue	Annual Rev.	Mo. Revenue	Annual Rev.
Single Family Residential															
Three Standard Containers	\$14.90	\$ 23.22	\$ 320,946.84	\$ 15.59	NA	\$ 14.41	\$ 30.00	\$ 21.98	\$ 7.69	\$ 29.67	13,822	\$303,769	\$3,645,224	\$410,088	\$4,921,053
1/2 Resid. (Grey & Blue only)	\$15.35	\$ 16.02	\$ 945.18	\$ 20.79	NA	\$ 7.21	\$ 28.00	\$ 17.30	\$ 6.05	\$ 23.35	59	\$1,021	\$12,246	\$1,378	\$16,532
Additional Grey Container	\$4.69	\$ 4.73	\$ 1,121.01	\$ 5.20	NA	\$ 7.21	\$ 12.40	\$ 9.73	\$ 3.40	\$ 13.13	237	\$2,306	\$27,667	\$3,113	\$37,350
Additional Green Container	\$2.32	\$ 2.17	\$ 154.07	\$ 5.20	NA	\$ 3.60	\$ 8.80	\$ 6.12	\$ 2.14	\$ 8.27	71	\$435	\$5,218	\$587	\$7,044
Additional Blue Container	\$2.19	\$ 2.17	\$ 56.42	\$ 5.20	NA	\$ 3.60	\$ 8.80	\$ 6.12	\$ 2.14	\$ 8.27	26	\$159	\$1,911	\$215	\$2,580
Residential Carry-Out Service															
Two Containers	\$26.01	\$ 55.32	\$ 55.32	\$ 31.17	NA	\$ 14.41	\$ 45.59	\$ 29.54	\$ 10.34	\$ 39.88	1	\$30	\$354	\$40	\$479
Each Additional Container	\$5.88	\$ 11.44	\$ -	\$ 10.39	NA	\$ 7.21	\$ 17.60	\$ 12.25	\$ 4.29	\$ 16.54	-	\$0	\$0	\$0	\$0
Total Resid. Service	\$208,187		\$323,279									\$307,718	\$3,692,620	\$415,420	\$4,985,038
Multi-Family Residential															
First Two Dwelling Units (each)	\$14.90	\$ 23.22	\$ 10,356.12	\$ 15.59	NA	\$ 14.41	\$ 30.00	\$ 21.98	\$ 7.69	\$ 29.67	446	\$9,802	\$117,622	\$13,232	\$158,790
Each Additional Dwelling Unit	\$14.90	\$ 22.59	\$ 1,603.89	\$ 11.69	NA	\$ 14.41	\$ 26.10	\$ 20.09	\$ 7.03	\$ 27.12	71	\$1,426	\$17,114	\$1,925	\$23,103
Total Multi-Family Service	\$22,672		\$11,960									\$11,228	\$134,736	\$15,158	\$181,893
Commercial															
Two Containers	17.53	\$ 29.46	\$ 5,214.42	\$ 31.17	NA	\$ 14.41	\$ 45.59	\$ 29.54	\$ 10.34	\$ 39.88	177	\$5,229	\$62,743	\$7,059	\$84,703
Additional Two Containers	34.23	\$ 40.85	\$ 81.70	\$ 23.38	NA	\$ 14.41	\$ 37.79	\$ 25.76	\$ 9.02	\$ 34.77	2	\$52	\$618	\$70	\$835
Commercial Carry-Out Service															
Two Containers	29.57	\$ 57.64	\$ 172.92	\$ 62.34	NA	\$ 14.41	\$ 76.76	\$ 44.67	\$ 15.63	\$ 60.30	3	\$134	\$1,608	\$181	\$2,171
Each Additional Container	17.20	\$ 17.70	\$ 106.20	\$ 31.17	NA	\$ 7.21	\$ 38.38	\$ 22.33	\$ 7.82	\$ 30.15	6	\$134	\$1,608	\$181	\$2,171
Two Containers (Grey Only)	16.54	\$ 29.46	\$ 88.38	\$ 62.34	NA	\$ 14.41	\$ 76.76	\$ 44.67	\$ 15.63	\$ 60.30	3	\$134	\$1,608	\$181	\$2,171
COMM C/O 96	5.57	\$ 5.41	\$ 5.41	\$ 31.17	NA	\$ 7.21	\$ 38.38	\$ 22.33	\$ 7.82	\$ 30.15	1	\$22	\$268	\$30	\$362
Total Comm. 96-Gal. Service	\$5,282		\$5,669									\$5,704	\$68,453	\$7,701	\$92,412
Bin Service (Solid Waste)															
2 Cubic Yard					Excluded										
1x per week	\$55.08	\$ 52.11	\$ 14,017.59	\$ 75.83	\$ -	\$ 15.17	\$ 91.00	\$ 108.68	\$ 38.04	\$ 146.72	269	\$29,234	\$350,813	\$39,466	\$473,597
2x per week	\$103.05	\$ 102.40	\$ 3,072.00	\$ 98.58	\$ -	\$ 30.33	\$ 128.92	\$ 148.20	\$ 51.87	\$ 200.07	30	\$4,446	\$53,351	\$6,002	\$72,024
3x per week	\$152.20	\$ 151.25	\$ 1,210.00	\$ 128.16	\$ -	\$ 45.50	\$ 173.66	\$ 196.61	\$ 68.81	\$ 265.42	8	\$1,573	\$18,874	\$2,123	\$25,480
4x per week	\$202.55	\$ 203.10	\$ 203.10	\$ 166.61	\$ -	\$ 60.67	\$ 227.27	\$ 256.58	\$ 89.80	\$ 346.38	1	\$257	\$3,079	\$346	\$4,157
5x per week	\$285.35	\$ 253.47	\$ 253.47	\$ 216.59	\$ -	\$ 75.83	\$ 292.42	\$ 331.58	\$ 116.05	\$ 447.63	1	\$332	\$3,979	\$448	\$5,372
6x per week		\$ 309.40	\$ -	\$ 281.56	\$ -	\$ 91.00	\$ 372.56	\$ 426.11	\$ 149.14	\$ 575.25	-	\$0	\$0	\$0	\$0
3 Cubic Yard															
1x per week	\$67.53	\$ 65.84	\$ 10,995.28	\$ 75.83	\$ -	\$ 22.75	\$ 98.58	\$ 113.62	\$ 39.77	\$ 153.38	167	\$18,974	\$227,690	\$25,615	\$307,382
2x per week	\$127.94	\$ 130.34	\$ 11,339.58	\$ 98.58	\$ -	\$ 45.50	\$ 144.08	\$ 158.08	\$ 55.33	\$ 213.40	87	\$13,753	\$165,033	\$18,566	\$222,794
3x per week	\$188.35	\$ 194.44	\$ 11,860.84	\$ 128.16	\$ -	\$ 68.25	\$ 196.41	\$ 211.43	\$ 74.00	\$ 285.43	61	\$12,897	\$154,765	\$17,411	\$208,933
4x per week	\$248.75	\$ 258.72	\$ 1,034.88	\$ 166.61	\$ -	\$ 91.00	\$ 257.61	\$ 276.34	\$ 96.72	\$ 373.06	4	\$1,105	\$13,264	\$1,492	\$17,907
5x per week	\$337.58	\$ 323.14	\$ 646.28	\$ 216.59	\$ -	\$ 113.75	\$ 330.34	\$ 356.28	\$ 124.70	\$ 480.97	2	\$713	\$8,551	\$962	\$11,543
6x per week		\$ 387.39	\$ -	\$ 281.56	\$ -	\$ 136.50	\$ 418.06	\$ 455.75	\$ 159.51	\$ 615.26	-	\$0	\$0	\$0	\$0
4 Cubic Yard															
1x per week	\$77.29	\$ 79.73	\$ 5,740.56	\$ 75.83	\$ -	\$ 30.33	\$ 106.17	\$ 118.56	\$ 41.50	\$ 160.05	72	\$8,536	\$102,434	\$11,524	\$138,286
2x per week	\$149.25	\$ 157.87	\$ 7,577.76	\$ 98.58	\$ -	\$ 60.67	\$ 159.25	\$ 167.96	\$ 58.78	\$ 226.74	48	\$8,062	\$96,743	\$10,884	\$130,603
3x per week	\$304.00	\$ 272.25	\$ 6,806.25	\$ 128.16	\$ -	\$ 91.00	\$ 219.16	\$ 226.25	\$ 79.19	\$ 305.43	25	\$5,656	\$67,874	\$7,636	\$91,630
4x per week	\$433.54	\$ 333.10	\$ 1,665.50	\$ 166.61	\$ -	\$ 121.33	\$ 287.94	\$ 296.10	\$ 103.63	\$ 399.73	5	\$1,480	\$17,766	\$1,999	\$23,984
5x per week	\$480.92	\$ 392.17	\$ 3,529.53	\$ 216.59	\$ -	\$ 151.67	\$ 368.25	\$ 380.98	\$ 133.34	\$ 514.32	9	\$3,429	\$41,145	\$4,629	\$55,546
6x per week		\$ 470.24	\$ -	\$ 281.56	\$ -	\$ 182.00	\$ 463.56	\$ 485.39	\$ 169.89	\$ 655.27	-	\$0	\$0	\$0	\$0

TABLE 30 : Analysis of Current and Proposed Residential and Commercial Rates

Analysis of Current and Proposed Residential and Commercial Rates																
Customer Classes/Service Type	What Mid Valley is Paid	Current Rates		Calculations of Proposed Rates								No. Units	Rev. Est. W/O Surcharge		Rev. Est. WITH Surcharge	
		FY 2019/20	Mo. Revenue	Collection \$	Bin Replacement	Disposal \$	FY 2020/21 Unadjusted	FY 2020/21 Adjusted	AB 1383 Surcharge	New Rate w/ Surcharge	Mo. Revenue		Annual Rev.	Mo. Revenue	Annual Rev.	
5 Cubic Yard																
1x per week	\$87.95	\$ 93.56	\$ -	\$ 75.83	\$ -	\$ 37.92	\$ 113.75	\$ 123.50	\$ 43.22	\$ 166.72	-	\$0	\$0	\$0	\$0	
2x per week	\$191.92	\$ 185.53	\$ -	\$ 98.58	\$ -	\$ 75.83	\$ 174.42	\$ 177.84	\$ 62.24	\$ 240.08	-	\$0	\$0	\$0	\$0	
3x per week	\$295.84	\$ 276.11	\$ 552.22	\$ 128.16	\$ -	\$ 113.75	\$ 241.91	\$ 241.07	\$ 84.37	\$ 325.44	2	\$482	\$5,786	\$651	\$7,811	
4x per week	\$391.84	\$ 369.45	\$ -	\$ 166.61	\$ -	\$ 151.67	\$ 318.27	\$ 315.86	\$ 110.55	\$ 426.41	-	\$0	\$0	\$0	\$0	
5x per week	\$487.80	\$ 461.47	\$ -	\$ 216.59	\$ -	\$ 189.58	\$ 406.17	\$ 405.68	\$ 141.99	\$ 547.66	-	\$0	\$0	\$0	\$0	
6x per week		\$ 553.33	\$ -	\$ 281.56	\$ -	\$ 227.50	\$ 509.06	\$ 515.03	\$ 180.26	\$ 695.29	-	\$0	\$0	\$0	\$0	
6 Cubic Yard																
1x per week	\$113.72	\$ 107.22	\$ 4,074.36	\$ 75.83	\$ -	\$ 45.50	\$ 121.33	\$ 128.44	\$ 44.95	\$ 173.39	38	\$4,881	\$58,568	\$6,589	\$79,066	
2x per week	\$216.76	\$ 213.04	\$ 6,178.16	\$ 98.58	\$ -	\$ 91.00	\$ 189.58	\$ 187.72	\$ 65.70	\$ 253.42	29	\$5,444	\$65,325	\$7,349	\$88,189	
3x per week	\$319.82	\$ 318.78	\$ 2,550.24	\$ 128.16	\$ -	\$ 136.50	\$ 264.66	\$ 255.89	\$ 89.56	\$ 345.45	8	\$2,047	\$24,565	\$2,764	\$33,163	
4x per week	\$427.60	\$ 424.44	\$ -	\$ 166.61	\$ -	\$ 182.00	\$ 348.61	\$ 335.62	\$ 117.47	\$ 453.08	-	\$0	\$0	\$0	\$0	
5x per week	\$525.03	\$ 529.93	\$ 2,119.72	\$ 216.59	\$ -	\$ 227.50	\$ 444.09	\$ 430.37	\$ 150.63	\$ 581.01	4	\$1,721	\$20,658	\$2,324	\$27,888	
6x per week		\$ 635.62	\$ -	\$ 281.56	\$ -	\$ 273.00	\$ 554.56	\$ 544.67	\$ 190.63	\$ 735.30	-	\$0	\$0	\$0	\$0	
LOCK	\$5.93	\$ 10.00	\$ 1,590.00	\$ -		\$ -	\$ 10.00	\$ 10.00	\$ 3.50	\$ 13.50	159	\$1,590	\$19,080	\$2,147	\$25,758	
Bin Service Rate Revenue		\$105,209		\$97,017								\$126,612	\$1,519,344	\$170,926	\$2,051,115	
Bin Service (Recyclables)		No Disposal Costs Included														
2 Cubic Yard																
1x per week	\$34.75	\$ 31.22	\$ 5,369.84	\$ 75.83	\$ -	\$ 7.58	\$ 83.42	\$ 48.21	\$ 16.87	\$ 65.08	172	\$8,291	\$99,496	\$11,193	\$134,319	
2x per week	\$62.32	\$ 55.98	\$ 1,063.62	\$ 151.67	\$ -	\$ 15.17	\$ 166.83	\$ 96.41	\$ 33.74	\$ 130.15	19	\$1,832	\$21,982	\$2,473	\$29,675	
3x per week	\$95.70	\$ 80.79	\$ 403.95	\$ 227.50	\$ -	\$ 22.75	\$ 250.25	\$ 144.62	\$ 50.62	\$ 195.23	5	\$723	\$8,677	\$976	\$11,714	
3 Cubic Yard																
1x per week	\$46.64	\$ 41.89	\$ 3,141.75	\$ 84.83	\$ -	\$ 11.38	\$ 96.21	\$ 56.82	\$ 19.89	\$ 76.70	75	\$4,261	\$51,136	\$5,753	\$69,034	
2x per week	\$80.94	\$ 72.72	\$ 1,890.72	\$ 160.67	\$ -	\$ 22.75	\$ 183.42	\$ 108.82	\$ 38.09	\$ 146.90	26	\$2,829	\$33,950	\$3,819	\$45,833	
3x per week	\$139.77	\$ 109.38	\$ 1,312.56	\$ 236.50	\$ -	\$ 34.13	\$ 270.63	\$ 160.81	\$ 56.28	\$ 217.10	12	\$1,930	\$23,157	\$2,605	\$31,262	
4 Cubic Yard																
1x per week	\$53.35	\$ 47.92	\$ 2,300.16	\$ 87.83	\$ -	\$ 15.17	\$ 103.00	\$ 62.22	\$ 21.78	\$ 83.99	48	\$2,986	\$35,837	\$4,032	\$48,380	
2x per week	\$99.51	\$ 89.40	\$ 1,341.00	\$ 163.67	\$ -	\$ 30.33	\$ 194.00	\$ 118.01	\$ 41.30	\$ 159.31	15	\$1,770	\$21,241	\$2,390	\$28,675	
3x per week	\$195.01	\$ 130.89	\$ 523.56	\$ 239.50	\$ -	\$ 45.50	\$ 285.00	\$ 173.79	\$ 60.83	\$ 234.62	4	\$695	\$8,342	\$938	\$11,262	
4 CY Recycling Compactor																
RC4/1COM	\$105.55	\$ 95.84	\$ 95.84	\$ 87.83	NA	\$ 45.50	\$ 133.33	\$ 92.55	\$ 32.39	\$ 124.94	1	\$93	\$1,111	\$125	\$1,499	
6 Cubic Yard																
1x per week	\$71.88	\$ 64.58	\$ 516.64	\$ 93.83	\$ -	\$ 22.75	\$ 116.58	\$ 73.01	\$ 25.55	\$ 98.57	8	\$584	\$7,009	\$789	\$9,463	
2x per week	\$131.48	\$ 118.12	\$ 1,181.20	\$ 169.67	\$ -	\$ 45.50	\$ 215.17	\$ 136.39	\$ 47.74	\$ 184.12	10	\$1,364	\$16,366	\$1,841	\$22,095	
3x per week	\$204.69	\$ 171.54	\$ 1,715.40	\$ 245.50	\$ -	\$ 68.25	\$ 313.75	\$ 199.76	\$ 69.92	\$ 269.67	10	\$1,998	\$23,971	\$2,697	\$32,361	
Recyclables Rate Revenue		\$20,658		\$20,856								\$29,356	\$352,275	\$39,631	\$475,572	

TABLE 30 : Analysis of Current and Proposed Residential and Commercial Rates

Analysis of Current and Proposed Residential and Commercial Rates															
Customer Classes/Service Type	What Mid Valley is Paid	Current Rates		Calculations of Proposed Rates							No. Units	Rev. Est. W/O Surcharge		Rev. Est. WITH Surcharge	
		FY 2019/20	Mo. Revenue	Collection \$	Bin Replacement	Disposal \$	FY 2020/21 Unadjusted	FY 2020/21 Adjusted	AB 1383 Surcharge	New Rate w/ Surcharge		Mo. Revenue	Annual Rev.	Mo. Revenue	Annual Rev.
Compactor - Bin Service															
2 Cubic Yard															
1x per week		\$ 104.22	\$ -	\$ 75.83	NA	\$ 45.50	\$ 121.33	\$ 52.81	\$ 18.48	\$ 71.29	-	\$0	\$0	\$0	\$0
2x per week		\$ 204.80	\$ -	\$ 98.58	NA	\$ 91.00	\$ 189.58	\$ 77.18	\$ 27.01	\$ 104.20	-	\$0	\$0	\$0	\$0
3x per week		\$ 302.50	\$ -	\$ 128.16	NA	\$ 136.50	\$ 264.66	\$ 105.21	\$ 36.82	\$ 142.03	-	\$0	\$0	\$0	\$0
4x per week		\$ 406.20	\$ -	\$ 166.61	NA	\$ 182.00	\$ 348.61	\$ 137.99	\$ 48.30	\$ 186.29	-	\$0	\$0	\$0	\$0
5x per week		\$ 506.94	\$ -	\$ 216.59	NA	\$ 227.50	\$ 444.09	\$ 176.95	\$ 61.93	\$ 238.89	-	\$0	\$0	\$0	\$0
6x per week		\$ 618.80	\$ -	\$ 281.56	NA	\$ 273.00	\$ 554.56	\$ 223.95	\$ 78.38	\$ 302.33	-	\$0	\$0	\$0	\$0
3 Cubic Yard															
1x per week		\$ 131.68	\$ -	\$ 75.83	NA	\$ 68.25	\$ 144.08	\$ 58.90	\$ 20.62	\$ 79.52	-	\$0	\$0	\$0	\$0
2x per week		\$ 260.68	\$ -	\$ 98.58	NA	\$ 136.50	\$ 235.08	\$ 89.37	\$ 31.28	\$ 120.65	-	\$0	\$0	\$0	\$0
3x per week	\$433.07	\$ 388.88	\$ 388.88	\$ 128.16	NA	\$ 204.75	\$ 332.91	\$ 123.49	\$ 43.22	\$ 166.71	1	\$123	\$1,482	\$167	\$2,001
4x per week		\$ 517.44	\$ -	\$ 166.61	NA	\$ 273.00	\$ 439.61	\$ 162.37	\$ 56.83	\$ 219.19	-	\$0	\$0	\$0	\$0
5x per week		\$ 646.28	\$ -	\$ 216.59	NA	\$ 341.25	\$ 557.84	\$ 207.42	\$ 72.60	\$ 280.02	-	\$0	\$0	\$0	\$0
6x per week		\$ 774.78	\$ -	\$ 281.56	NA	\$ 409.50	\$ 691.06	\$ 260.51	\$ 91.18	\$ 351.68	-	\$0	\$0	\$0	\$0
4 Cubic Yard															
1x per week	\$152.96	\$ 159.46	\$ 159.46	\$ 75.83	NA	\$ 91.00	\$ 166.83	\$ 65.00	\$ 22.75	\$ 87.74	1	\$65	\$780	\$88	\$1,053
2x per week		\$ 315.74	\$ -	\$ 98.58	NA	\$ 182.00	\$ 280.58	\$ 101.56	\$ 35.54	\$ 137.10	-	\$0	\$0	\$0	\$0
3x per week		\$ 544.50	\$ -	\$ 128.16	NA	\$ 273.00	\$ 401.16	\$ 141.77	\$ 49.62	\$ 191.39	-	\$0	\$0	\$0	\$0
4x per week		\$ 666.20	\$ -	\$ 166.61	NA	\$ 364.00	\$ 530.61	\$ 186.74	\$ 65.36	\$ 252.10	-	\$0	\$0	\$0	\$0
5x per week		\$ 784.34	\$ -	\$ 216.59	NA	\$ 455.00	\$ 671.59	\$ 237.89	\$ 83.26	\$ 321.15	-	\$0	\$0	\$0	\$0
6x per week		\$ 940.48	\$ -	\$ 281.56	NA	\$ 546.00	\$ 827.56	\$ 297.07	\$ 103.97	\$ 401.04	-	\$0	\$0	\$0	\$0
5 Cubic Yard															
1x per week		\$ 187.12	\$ -	\$ 75.83	NA	\$ 113.75	\$ 189.58	\$ 71.09	\$ 24.88	\$ 95.97	-	\$0	\$0	\$0	\$0
2x per week		\$ 371.06	\$ -	\$ 98.58	NA	\$ 227.50	\$ 326.08	\$ 113.74	\$ 39.81	\$ 153.55	-	\$0	\$0	\$0	\$0
3x per week		\$ 552.22	\$ -	\$ 128.16	NA	\$ 341.25	\$ 469.41	\$ 160.05	\$ 56.02	\$ 216.07	-	\$0	\$0	\$0	\$0
4x per week		\$ 738.90	\$ -	\$ 166.61	NA	\$ 455.00	\$ 621.61	\$ 211.11	\$ 73.89	\$ 285.00	-	\$0	\$0	\$0	\$0
5x per week		\$ 922.94	\$ -	\$ 216.59	NA	\$ 568.75	\$ 785.34	\$ 268.35	\$ 93.92	\$ 362.28	-	\$0	\$0	\$0	\$0
6x per week		\$ 1,106.66	\$ -	\$ 281.56	NA	\$ 682.50	\$ 964.06	\$ 333.63	\$ 116.77	\$ 450.39	-	\$0	\$0	\$0	\$0
6 Cubic Yard															
1x per week		\$ 214.44	\$ -	\$ 75.83	NA	\$ 136.50	\$ 212.33	\$ 77.18	\$ 27.01	\$ 104.20	-	\$0	\$0	\$0	\$0
2x per week		\$ 426.08	\$ -	\$ 98.58	NA	\$ 273.00	\$ 371.58	\$ 125.93	\$ 44.07	\$ 170.00	-	\$0	\$0	\$0	\$0
3x per week		\$ 637.56	\$ -	\$ 128.16	NA	\$ 409.50	\$ 537.66	\$ 178.33	\$ 62.42	\$ 240.75	-	\$0	\$0	\$0	\$0
4x per week		\$ 848.88	\$ -	\$ 166.61	NA	\$ 546.00	\$ 712.61	\$ 235.49	\$ 82.42	\$ 317.91	-	\$0	\$0	\$0	\$0
5x per week		\$ 1,059.86	\$ -	\$ 216.59	NA	\$ 682.50	\$ 899.09	\$ 298.82	\$ 104.59	\$ 403.41	-	\$0	\$0	\$0	\$0
6x per week		\$ 1,271.24	\$ -	\$ 281.56	NA	\$ 819.00	\$ 1,100.56	\$ 370.19	\$ 129.57	\$ 499.75	-	\$0	\$0	\$0	\$0
Compactor Rate Revenue	\$548		\$548									\$188	\$2,262	\$254	\$3,053

TABLE 30 : Analysis of Current and Proposed Residential and Commercial Rates

Analysis of Current and Proposed Residential and Commercial Rates																
Customer Classes/Service Type	What Mid Valley is Paid	Current Rates		Calculations of Proposed Rates							No. Units	Rev. Est. W/O Surcharge		Rev. Est. WITH Surcharge		
		FY 2019/20	Mo. Revenue	Collection \$	Bin Replacement	Disposal \$	FY 2020/21 Unadjusted	FY 2020/21 Adjusted	AB 1383 Surcharge	New Rate w/ Surcharge		Mo. Revenue	Annual Rev.	Mo. Revenue	Annual Rev.	
Compactor - Bin Service																
Organic Waste																
96 Gallon Container																
1x per week	\$11.03	\$ 10.28	\$ 133.64	\$ 15.59	NA	\$ 7.21	\$22.79	\$ 10.28	\$ 3.60	\$ 13.88	13	\$134	\$1,604	\$180	\$2,165	
2x per week	\$22.07	\$ 20.57	\$ 61.71	\$ 31.17	NA	\$ 14.41	\$45.59	\$ 20.56	\$ 7.20	\$ 27.75	3	\$62	\$740	\$83	\$999	
3x per week	\$33.11	\$ 30.85	\$ -	\$ 46.76	NA	\$ 21.62	\$68.38	\$ 30.84	\$ 10.79	\$ 41.63	-	\$0	\$0	\$0	\$0	
4x per week	\$44.16	\$ 41.13	\$ -	\$ 62.34	NA	\$ 28.83	\$91.17	\$ 41.12	\$ 14.39	\$ 55.51	-	\$0	\$0	\$0	\$0	
5x per week	\$55.19	\$ 51.41	\$ -	\$ 77.93	NA	\$ 36.04	\$113.96	\$ 51.40	\$ 17.99	\$ 69.38	-	\$0	\$0	\$0	\$0	
2 Cubic Yard Bin																
1x per week	\$45.26	\$ 42.18	\$ 548.34	\$ 75.83	\$ -	\$ 15.17	\$91.00	\$ 44.68	\$ 15.64	\$ 60.32	13	\$581	\$6,971	\$784	\$9,410	
2x per week	\$82.78	\$ 77.36	\$ 773.60	\$ 151.67	\$ -	\$ 30.33	\$182.00	\$ 89.37	\$ 31.28	\$ 120.65	10	\$894	\$10,724	\$1,206	\$14,478	
3x per week	\$126.93	\$ 118.54	\$ 474.16	\$ 227.50	\$ -	\$ 45.50	\$273.00	\$ 134.05	\$ 46.92	\$ 180.97	4	\$536	\$6,435	\$724	\$8,687	
4x per week	\$165.54	\$ 157.07	\$ -	\$ 303.33	\$ -	\$ 60.67	\$364.00	\$ 178.74	\$ 62.56	\$ 241.29	-	\$0	\$0	\$0	\$0	
5x per week	\$204.19	\$ 193.84	\$ -	\$ 379.17	\$ -	\$ 75.83	\$455.00	\$ 223.42	\$ 78.20	\$ 301.62	-	\$0	\$0	\$0	\$0	
3 Cubic Yard Bin																
1x per week	\$56.29	\$ 52.77	\$ -	\$ 84.83	\$ -	\$ 22.75	\$107.58	\$ 51.54	\$ 18.04	\$ 69.57	-	\$0	\$0	\$0	\$0	
2x per week	\$104.86	\$ 98.54	\$ -	\$ 160.67	\$ -	\$ 45.50	\$206.17	\$ 98.25	\$ 34.39	\$ 132.64	-	\$0	\$0	\$0	\$0	
3x per week	\$160.05	\$ 150.30	\$ -	\$ 236.50	\$ -	\$ 68.25	\$304.75	\$ 144.97	\$ 50.74	\$ 195.71	-	\$0	\$0	\$0	\$0	
4x per week	\$203.60	\$ 197.07	\$ -	\$ 312.33	\$ -	\$ 91.00	\$403.33	\$ 191.68	\$ 67.09	\$ 258.77	-	\$0	\$0	\$0	\$0	
5x per week	\$251.82	\$ 243.84	\$ 243.84	\$ 388.17	\$ -	\$ 113.75	\$501.92	\$ 238.40	\$ 83.44	\$ 321.84	1	\$238	\$2,861	\$322	\$3,862	
Total Organic Rate Revenue	\$1,645		\$2,235									\$2,444	\$29,334	\$3,300	\$39,601	
Total Comm. Rate Revenue	\$133,342.27		\$126,326.22									\$164,306	\$1,971,668	\$221,813	\$2,661,752	
Total Resid. & Comm.	\$364,200.47		\$461,565.07									\$483,252	\$5,799,024	\$652,390	\$7,828,683	
City Admin Service Fee		Surcharge does not apply.														
SFR Admin Service Fee	\$2.33	\$2.33	\$ 32,342.73					\$2.33	\$2.33			13,881	\$32,343	\$388,113	\$32,343	\$388,113
MFR Admin Service Fee	\$2.33	\$2.33	\$ 1,039.18					\$2.33	\$2.33			446	\$1,039	\$12,470	\$1,039	\$12,470
Comm/Lock Admin Service Fee	\$2.33	\$2.33	\$ 370.47					\$2.33	\$2.33			159	\$370	\$4,446	\$370	\$4,446
Total Admin Service Fee	\$ 33,752		\$33,752									\$33,752	\$405,029	\$33,752	\$405,029	
Total Resid./Comm./Admin	\$397,952.85		\$495,317.45									\$517,004	\$6,204,053	\$686,143	\$8,233,712	

Customer Classes/Service Type	Current Rates FY 2019/20	Proposed Solid Waste Rates (Include Street Sweeping, Admin Fee & SB 1383 Surcharge) ¹				
		FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Single Family Residential						
Three Standard Containers	\$ 23.22	\$ 38.23	\$ 41.82	\$ 45.77	\$ 47.51	\$ 49.31
1/2 Resid. (Grey & Blue only)	\$ 16.02	\$ 30.58	\$ 33.41	\$ 36.52	\$ 37.89	\$ 39.31
Additional Grey Container	\$ 4.73	\$ 28.25	\$ 31.08	\$ 34.19	\$ 35.56	\$ 36.98
Additional Green Container	\$ 2.17	\$ 10.00	\$ 11.00	\$ 12.11	\$ 12.59	\$ 13.09
Additional Blue Container	\$ 2.17	\$ 10.00	\$ 11.00	\$ 12.11	\$ 12.59	\$ 13.09
Residential Carry-Out Service						
Two Containers	\$ 55.32	\$ 50.58	\$ 55.41	\$ 60.72	\$ 63.05	\$ 65.48
Each Additional Container	\$ 11.44	\$ 20.01	\$ 22.01	\$ 24.21	\$ 25.18	\$ 26.19
Multi-Family Residential						
First Two Dwelling Units (each)	\$ 23.22	\$ 38.23	\$ 41.82	\$ 45.77	\$ 47.51	\$ 49.31
Each Additional Dwelling Unit	\$ 22.59	\$ 35.14	\$ 38.42	\$ 42.03	\$ 43.62	\$ 45.27
Commercial						
Two Containers	\$ 29.46	\$ 50.58	\$ 55.41	\$ 60.72	\$ 63.05	\$ 65.48
Additional Container	\$ 40.85	\$ 42.08	\$ 46.28	\$ 50.91	\$ 52.95	\$ 55.07
Commercial Carry-Out Service						
Two Containers	\$ 57.64	\$ 75.29	\$ 82.59	\$ 90.61	\$ 94.14	\$ 97.82
Each Additional Container	\$ 17.70	\$ 36.48	\$ 40.13	\$ 44.14	\$ 45.91	\$ 47.74

1. Note: Admin Fee only applies to initial service charge, not on additional containers.

Customer Classes/Service Type	Current Rates FY 2019/20	Proposed Solid Waste Rates (Include Street Sweeping & SB 1383 Surcharge)				
		FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Bin Service (Solid Waste)						
2 Cubic Yard						
1x per week	\$ 52.11	\$ 177.53	\$ 195.28	\$ 214.81	\$ 223.40	\$ 232.33
2x per week	\$ 102.40	\$ 242.08	\$ 266.29	\$ 292.92	\$ 304.63	\$ 316.82
3x per week	\$ 151.25	\$ 321.16	\$ 353.28	\$ 388.60	\$ 404.15	\$ 420.31
4x per week	\$ 203.10	\$ 419.12	\$ 461.03	\$ 507.14	\$ 527.42	\$ 548.52
5x per week	\$ 253.47	\$ 541.63	\$ 595.79	\$ 655.37	\$ 681.59	\$ 708.85
3 Cubic Yard						
1x per week	\$ 65.84	\$ 185.59	\$ 204.15	\$ 224.57	\$ 233.55	\$ 242.89
2x per week	\$ 130.34	\$ 258.22	\$ 284.04	\$ 312.45	\$ 324.94	\$ 337.94
3x per week	\$ 194.44	\$ 345.37	\$ 379.90	\$ 417.90	\$ 434.61	\$ 452.00
4x per week	\$ 258.72	\$ 451.40	\$ 496.54	\$ 546.19	\$ 568.04	\$ 590.76
5x per week	\$ 323.14	\$ 581.98	\$ 640.18	\$ 704.19	\$ 732.36	\$ 761.65
4 Cubic Yard						
1x per week	\$ 79.73	\$ 193.66	\$ 213.03	\$ 234.33	\$ 243.71	\$ 253.46
2x per week	\$ 157.87	\$ 274.36	\$ 301.79	\$ 331.97	\$ 345.25	\$ 359.06
3x per week	\$ 272.25	\$ 369.58	\$ 406.53	\$ 447.19	\$ 465.07	\$ 483.68
4x per week	\$ 333.10	\$ 483.68	\$ 532.04	\$ 585.25	\$ 608.66	\$ 633.00
5x per week	\$ 392.17	\$ 622.32	\$ 684.56	\$ 753.01	\$ 783.13	\$ 814.46
5 Cubic Yard						
3x per week	\$ 276.11	\$ 393.78	\$ 433.16	\$ 476.48	\$ 495.54	\$ 515.36
6 Cubic Yard						
1x per week	\$ 107.22	\$ 209.80	\$ 230.78	\$ 253.86	\$ 264.02	\$ 274.58
2x per week	\$ 213.04	\$ 306.64	\$ 337.30	\$ 371.03	\$ 385.87	\$ 401.30
3x per week	\$ 318.78	\$ 417.99	\$ 459.79	\$ 505.77	\$ 526.00	\$ 547.04
5x per week	\$ 529.93	\$ 703.02	\$ 773.32	\$ 850.65	\$ 884.68	\$ 920.06

Customer Classes/Service Type		Current Rates FY 2019/20	Proposed Solid Waste Rates <i>(Include Street Sweeping & SB 1383 Surcharge)</i>				
			FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Bin Service (Solid Waste)							
<u>2 Cubic Yard</u>							
	1x per week	\$ 52.11	\$ 177.53	\$ 195.28	\$ 214.81	\$ 223.40	\$ 232.33
	2x per week	\$ 102.40	\$ 242.08	\$ 266.29	\$ 292.92	\$ 304.63	\$ 316.82
	3x per week	\$ 151.25	\$ 321.16	\$ 353.28	\$ 388.60	\$ 404.15	\$ 420.31
	4x per week	\$ 203.10	\$ 419.12	\$ 461.03	\$ 507.14	\$ 527.42	\$ 548.52
	5x per week	\$ 253.47	\$ 541.63	\$ 595.79	\$ 655.37	\$ 681.59	\$ 708.85
<u>3 Cubic Yard</u>							
	1x per week	\$ 65.84	\$ 185.59	\$ 204.15	\$ 224.57	\$ 233.55	\$ 242.89
	2x per week	\$ 130.34	\$ 258.22	\$ 284.04	\$ 312.45	\$ 324.94	\$ 337.94
	3x per week	\$ 194.44	\$ 345.37	\$ 379.90	\$ 417.90	\$ 434.61	\$ 452.00
	4x per week	\$ 258.72	\$ 451.40	\$ 496.54	\$ 546.19	\$ 568.04	\$ 590.76
	5x per week	\$ 323.14	\$ 581.98	\$ 640.18	\$ 704.19	\$ 732.36	\$ 761.65
<u>4 Cubic Yard</u>							
	1x per week	\$ 79.73	\$ 193.66	\$ 213.03	\$ 234.33	\$ 243.71	\$ 253.46
	2x per week	\$ 157.87	\$ 274.36	\$ 301.79	\$ 331.97	\$ 345.25	\$ 359.06
	3x per week	\$ 272.25	\$ 369.58	\$ 406.53	\$ 447.19	\$ 465.07	\$ 483.68
	4x per week	\$ 333.10	\$ 483.68	\$ 532.04	\$ 585.25	\$ 608.66	\$ 633.00
	5x per week	\$ 392.17	\$ 622.32	\$ 684.56	\$ 753.01	\$ 783.13	\$ 814.46
<u>5 Cubic Yard</u>							
	3x per week	\$ 276.11	\$ 393.78	\$ 433.16	\$ 476.48	\$ 495.54	\$ 515.36
<u>6 Cubic Yard</u>							
	1x per week	\$ 107.22	\$ 209.80	\$ 230.78	\$ 253.86	\$ 264.02	\$ 274.58
	2x per week	\$ 213.04	\$ 306.64	\$ 337.30	\$ 371.03	\$ 385.87	\$ 401.30
	3x per week	\$ 318.78	\$ 417.99	\$ 459.79	\$ 505.77	\$ 526.00	\$ 547.04
	5x per week	\$ 529.93	\$ 703.02	\$ 773.32	\$ 850.65	\$ 884.68	\$ 920.06

Customer Classes/Service Type		Current Rates FY 2019/20	Proposed Solid Waste Rates <i>(Include Street Sweeping & SB 1383 Surcharge)</i>				
			FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Bin Service (Recyclables)							
<u>2 Cubic Yard</u>							
	1x per week	\$ 31.22	\$ 78.74	\$ 86.62	\$ 95.28	\$ 99.09	\$ 103.05
	2x per week	\$ 55.98	\$ 157.49	\$ 173.24	\$ 190.56	\$ 198.18	\$ 206.11
	3x per week	\$ 80.79	\$ 236.23	\$ 259.85	\$ 285.84	\$ 297.27	\$ 309.16
<u>3 Cubic Yard</u>							
	1x per week	\$ 41.89	\$ 92.81	\$ 102.09	\$ 112.30	\$ 116.80	\$ 121.47
	2x per week	\$ 72.72	\$ 177.75	\$ 195.52	\$ 215.08	\$ 223.68	\$ 232.63
	3x per week	\$ 109.38	\$ 262.69	\$ 288.96	\$ 317.85	\$ 330.56	\$ 343.79
<u>4 Cubic Yard</u>							
	1x per week	\$ 47.92	\$ 101.63	\$ 111.79	\$ 122.97	\$ 127.89	\$ 133.01
	2x per week	\$ 89.40	\$ 192.76	\$ 212.04	\$ 233.24	\$ 242.57	\$ 252.27
	3x per week	\$ 130.89	\$ 283.89	\$ 312.28	\$ 343.51	\$ 357.25	\$ 371.54
<u>6 Cubic Yard</u>							
	1x per week	\$ 64.58	\$ 119.27	\$ 131.20	\$ 144.32	\$ 150.09	\$ 156.09
	2x per week	\$ 118.12	\$ 222.79	\$ 245.07	\$ 269.57	\$ 280.35	\$ 291.57
	3x per week	\$ 171.54	\$ 326.31	\$ 358.94	\$ 394.83	\$ 410.62	\$ 427.05
Compactor - Bin Service							
<u>3 Cubic Yard</u>							
	3x per week	\$ 388.88	\$ 201.72	\$ 221.89	\$ 244.08	\$ 253.85	\$ 264.00
<u>4 Cubic Yard</u>							
	1x per week	\$ 159.46	\$ 106.17	\$ 116.79	\$ 128.47	\$ 133.60	\$ 138.95
Roll-Off Container (Not a City rate)							
<u>25 Cubic Yard</u>							
	Monthly Rent	\$ 181.13	\$ 219.17	\$ 241.08	\$ 265.19	\$ 275.80	\$ 286.83
	Per Load	\$ 185.25	\$ 224.15	\$ 246.57	\$ 271.22	\$ 282.07	\$ 293.36

Customer Classes/Service Type	Current Rates FY 2019/20	Proposed Solid Waste Rates					
		FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	
Organic Waste (Includes Street Sweeping & SB 1383 Surcharge)							
96 Gallon Container							
1x per week	\$ 10.28	\$ 16.79	\$ 18.47	\$ 20.32	\$ 21.13	\$ 21.98	
2x per week	\$ 20.57	\$ 33.58	\$ 36.94	\$ 40.63	\$ 42.26	\$ 43.95	
2 Cubic Yard Bin							
1x per week	\$ 42.18	\$ 72.99	\$ 80.29	\$ 88.32	\$ 91.85	\$ 95.53	
2x per week	\$ 77.36	\$ 145.98	\$ 160.58	\$ 176.64	\$ 183.71	\$ 191.05	
3x per week	\$ 118.54	\$ 218.98	\$ 240.87	\$ 264.96	\$ 275.56	\$ 286.58	
3 Cubic Yard Bin							
5x per week	\$ 243.84	\$ 389.42	\$ 428.36	\$ 471.20	\$ 490.05	\$ 509.65	
Miscellaneous Rates and Charges (Does Not Include Street Sweeping or SB 1383 Surcharge)							
Locking Service Fee (Optional)	\$10.00	\$ 12.10	\$ 13.31	\$ 14.64	\$ 15.23	\$ 15.84	
Lost Lock Fee	\$15.00	\$ 18.15	\$ 19.97	\$ 21.96	\$ 22.84	\$ 23.75	
New or Replacement Can	\$53.30	\$ 64.49	\$ 70.94	\$ 78.04	\$ 81.16	\$ 84.40	
Delivery Charge	\$10.00	\$ 12.10	\$ 13.31	\$ 14.64	\$ 15.23	\$ 15.84	
Street Cleaning Service							
Per foot of street exposure	\$0.0248	(Now Included in Solid Waste Rates)					
Additional Cleaning per foot	\$0.0125						

TABLE 33 : Customer Bill Comparisons

Single Family Residential	Current	Proposed New Rates (\$/month)						
Solid Waste Service Type	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Single Family Residential	\$ 23.22	\$ 32.00	\$ 34.97	\$ 38.23	\$ 41.82	\$ 45.77	\$ 47.51	\$ 49.31

Multi-Family Residential	Current	Proposed New Rates (\$/month)						
Solid Waste Service Type	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
First Two Dwelling Units (each)	\$ 23.22	\$ 32.00	\$ 34.97	\$ 38.23	\$ 41.82	\$ 45.77	\$ 47.51	\$ 49.31
Each Additional Dwelling Unit	\$ 22.59	\$ 29.45	\$ 32.16	\$ 35.14	\$ 38.42	\$ 42.03	\$ 43.62	\$ 45.27

Commercial	Current	Proposed New Rates (\$/month)						
Solid Waste Service Type	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Commercial Two Containers	\$ 29.46	\$ 42.21	\$ 46.20	\$ 50.58	\$ 55.41	\$ 60.72	\$ 63.05	\$ 65.48
Commercial Additional Container	\$ 40.85	\$ 34.77	\$ 38.25	\$ 42.08	\$ 46.28	\$ 50.91	\$ 52.95	\$ 55.07

Bin Service (Solid Waste)	Current	Proposed New Rates (\$/month)						
Solid Waste Service Type	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Commercial 2 Cubic Yard - 1X/Week	\$ 52.11	\$ 146.72	\$ 161.39	\$ 177.53	\$ 195.28	\$ 214.81	\$ 223.40	\$ 232.33
Commercial 3 Cubic Yard - 1X/Week	\$ 65.84	\$ 153.38	\$ 168.72	\$ 185.59	\$ 204.15	\$ 224.57	\$ 233.55	\$ 242.89

Bin Service (Recyclables)	Current	Proposed New Rates (\$/month)						
Solid Waste Service Type	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Recyclables 2 Cubic Yard - 1X/Week	\$ 31.22	\$ 65.08	\$ 71.58	\$ 78.74	\$ 86.62	\$ 95.28	\$ 99.09	\$ 103.05
Recyclables 3 Cubic Yard - 1X/Week	\$ 41.89	\$ 76.70	\$ 84.37	\$ 92.81	\$ 102.09	\$ 112.30	\$ 116.80	\$ 121.47

Organic Waste	Current	Proposed New Rates (\$/month)						
Solid Waste Service Type	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Organics 96 Gallon Container - 1X/Week	\$ 10.28	\$ 13.88	\$ 15.26	\$ 16.79	\$ 18.47	\$ 20.32	\$ 21.13	\$ 21.98
Organics 2 Cubic Yard Bin - 1X/Week	\$ 42.18	\$ 60.32	\$ 66.36	\$ 72.99	\$ 80.29	\$ 88.32	\$ 91.85	\$ 95.53

City of Madera Tonnages for 2020 ¹

Sum of Allocated Tons													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
MADERA													
COM	1,383.6	1,279.8	1,376.2	1,189.9	1,208.0	1,344.1	1,255.5	1,227.5	1,272.0	1,269.1	1,246.7	1,364.8	15,417.2
FL ORGANICS	21.2	21.4	28.5	16.6	22.6	23.3	17.3	23.6	14.6	25.4	25.2	23.5	263.1
FL RECYCLE	147.7	131.9	152.2	122.3	126.1	152.3	131.0	133.9	132.6	118.9	126.0	140.9	1,615.9
FL TRASH	1,214.7	1,126.4	1,195.5	1,051.0	1,059.3	1,168.5	1,107.2	1,070.1	1,124.8	1,124.8	1,095.5	1,200.4	13,538.2
RES	2,434.8	2,187.0	2,631.7	3,232.0	2,840.4	2,617.0	2,763.4	2,455.8	2,634.2	2,709.9	2,588.7	3,055.4	32,150.3
SL ORGANICS	627.2	698.9	911.7	1,266.7	936.6	801.3	710.6	694.2	761.6	737.3	687.2	874.0	9,707.1
SL RECYCLE	330.0	271.9	312.1	352.0	333.2	325.3	351.8	295.5	318.3	331.9	360.8	422.1	4,004.7
SL TRASH	1,477.7	1,216.2	1,408.0	1,613.3	1,570.6	1,490.5	1,701.0	1,466.1	1,554.4	1,640.7	1,540.7	1,759.3	18,438.5
Grand Total	3,818.5	3,466.8	4,007.9	4,421.9	4,048.3	3,961.1	4,018.8	3,683.3	3,906.2	3,979.0	3,835.4	4,420.2	47,567.5

1. Source files: 2020 Tonnages.xlsx

Sum of Allocated Tons													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
MADERA													
Residential - SL TRASH	1,477.7	1,216.2	1,408.0	1,613.3	1,570.6	1,490.5	1,701.0	1,466.1	1,554.4	1,640.7	1,540.7	1,759.3	18,438.5
Commercial - FL TRASH	1,214.7	1,126.4	1,195.5	1,051.0	1,059.3	1,168.5	1,107.2	1,070.1	1,124.8	1,124.8	1,095.5	1,200.4	13,538.2
Total Trash Tonnages	2,692.4	2,342.6	2,603.5	2,664.3	2,629.9	2,659.0	2,808.1	2,536.1	2,679.2	2,765.5	2,636.3	2,959.7	31,976.6
Residential - SL RECYCLE	330.0	271.9	312.1	352.0	333.2	325.3	351.8	295.5	318.3	331.9	360.8	422.1	4,004.7
Commercial - FL RECYCLE	147.7	131.9	152.2	122.3	126.1	152.3	131.0	133.9	132.6	118.9	126.0	140.9	1,615.9
Total Recycle Tonnages	477.7	403.8	464.3	474.2	459.3	477.6	482.8	429.4	450.9	450.8	486.8	563.1	5,620.6
Residential - SL ORGANIC	627.2	698.9	911.7	1,266.7	936.6	801.3	710.6	694.2	761.6	737.3	687.2	874.0	9,707.1
Commercial - FL ORGANIC	21.2	21.4	28.5	16.6	22.6	23.3	17.3	23.6	14.6	25.4	25.2	23.5	263.1
Total Organics Tonnages	648.4	720.3	940.2	1,283.3	959.2	824.6	727.9	717.8	776.2	762.7	712.4	897.5	9,970.3
Grand Total	3,818.5	3,466.8	4,007.9	4,421.9	4,048.3	3,961.1	4,018.8	3,683.3	3,906.2	3,979.0	3,835.4	4,420.2	47,567.5

City of Madera Tonnages for 2020 ¹

Disposal Tonnages by Type	2020 Total	% of Component	% of Total
Solid Waste Disposal Components			
Residential - SL TRASH	18,438.5	57.7%	67.2%
Commercial - FL TRASH	13,538.2	42.3%	
Total Trash Tonnages	31,976.6	100.0%	
Residential - SL RECYCLE	4,004.7	71.3%	11.8%
Commercial - FL RECYCLE	1,615.9	28.7%	
Total Recycle Tonnages	5,620.6	100.0%	
Residential - SL ORGANICS	9,707.1	97.4%	21.0%
Commercial - FL ORGANICS	263.1	2.6%	
Total Organics Tonnages	9,970.3	100.0%	
Grand Total	47,567.5	N.A.	100.0%

1. Source files: 2020 Tonnages.xlsx

Residential vs. Commercial Disposal Tonnages	2020 Total	% of Component
Solid Waste Disposal Components		
Residential - SL TRASH	18,438.5	57.4%
Residential - SL RECYCLE	4,004.7	12.5%
Residential - SL ORGANICS	9,707.1	30.2%
Total Residential Tonnages	32,150.3	100.0%
Commercial - FL TRASH	13,538.2	87.8%
Commercial - FL RECYCLE	1,615.9	10.5%
Commercial - FL ORGANICS	263.1	1.7%
Total Commercial Tonnages	15,417.2	100.0%
Grand Total	47,567.5	N.A.

1. Source files: 2020 Tonnages.xlsx

Sum of Allocated Tons													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
MADERA													
COM	1,383.6	1,279.8	1,376.2	1,189.9	1,208.0	1,344.1	1,255.5	1,227.5	1,272.0	1,269.1	1,246.7	1,364.8	15,417.2
FL ORGANICS	21.2	21.4	28.5	16.6	22.6	23.3	17.3	23.6	14.6	25.4	25.2	23.5	263.1
FL RECYCLE	147.7	131.9	152.2	122.3	126.1	152.3	131.0	133.9	132.6	118.9	126.0	140.9	1,615.9
FL TRASH	1,214.7	1,126.4	1,195.5	1,051.0	1,059.3	1,168.5	1,107.2	1,070.1	1,124.8	1,095.5	1,200.4	1,200.4	13,538.2
RES	2,434.8	2,187.0	2,631.7	3,232.0	2,840.4	2,617.0	2,763.4	2,455.8	2,634.2	2,709.9	2,588.7	3,055.4	32,150.3
SL ORGANICS	627.2	698.9	911.7	1,266.7	936.6	801.3	710.6	694.2	761.6	737.3	687.2	874.0	9,707.1
SL RECYCLE	330.0	271.9	312.1	352.0	333.2	325.3	351.8	295.5	318.3	331.9	360.8	422.1	4,004.7
SL TRASH	1,477.7	1,216.2	1,408.0	1,613.3	1,570.6	1,490.5	1,701.0	1,466.1	1,554.4	1,640.7	1,540.7	1,759.3	18,438.5
Grand Total	3,818.5	3,466.8	4,007.9	4,421.9	4,048.3	3,961.1	4,018.8	3,683.3	3,906.2	3,979.0	3,835.4	4,420.2	47,567.5

1. Source files: 2020 Tonnages.xlsx