Docket : <u>A.22-07-001</u>

Exhibit Number : <u>Cal Adv - #</u>

Commissioner : <u>Genevieve Shiroma</u> Administrative Law Judge : Jacob Rambo

Administrative Law Judge Public Advocates Office

Witness : <u>Timothy Gee</u>



## PUBLIC ADVOCATES OFFICE CALIFORNIA PUBLIC UTILITIES COMMISSION

## REPORT ON OPERATIONS AND MAINTENANCE EXPENSES

# CALIFORNIA AMERICAN WATER COMPANY General Rate Case Application 22-07-001 Test Year 2024

San Francisco, California April 13, 2023

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#### **MEMORANDUM**

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2	The Public Advocates Office at the California Public Utilities Commission ("Cal
3	Advocates") examined application material, data request responses, and other
4	information presented by California American Water Company ("Cal Am") in
5	Application ("A.") 22-07-001 to provide the California Public Utilities Commission
6	("Commission" or "CPUC") with recommendations in the interests of ratepayers for safe
7	and reliable service at the lowest cost. Mr. Cortney Sorensen is Cal Advocates' project
8	lead for this proceeding. This Report is prepared by Mr. Timothy Gee. Mr. Mukunda
9	Dawadi is the oversight supervisor. Ms. Angela Wuerth and Ms. Emily Fisher are the
10	legal counsel.
11	Although every effort was made to comprehensively review, analyze, and provide
12	the Commission with recommendations on each ratemaking and policy aspect presented
13	in the Application, the absence from Cal Advocates' testimony of any particular issue
14	connotes neither agreement nor disagreement of the underlying request, methodology, or
15	policy position related to that issue.

#### **OPERATIONS AND MAINTENANCE EXPENSES**

#### 2 I. INTRODUCTION

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	3	The scope of this testimon	y is limited to C	Operations and Maintenance (	(O&M
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- 4 expenses (excluding labor) which includes the following items: Purchased Water,
- 5 Purchased Power, Chemicals, Water Loss Performance Standards, Planning Studies and
- 6 Maps, and Citizens Acquisition Premium. 1

#### II. SUMMARY OF RECOMMENDATIONS

- 8 Summary Table 1-1 shows Cal Advocates' adjustments to Cal Am's forecasted
- 9 O&M expenses for Test Year (TY) 2024. Adjustments to accounts such as NARUC
- Account #704 Purchased Water and #726 Purchased Power reflect more reasonable
- 11 forecasts based on historical and known cost increases, as these accounts are
- unreasonably under-forecasted in Cal Am's original projections. Additionally, the
- 13 Commission should implement a Deceptive Pricing Adjustment as Cal Am continues to
- under-forecast costs tracked in balancing accounts. Cal Am's under-forecasting of costs
- in balancing accounts deceptively presents lower rate increases than those Cal Am knows
- 16 ratepayers will actually experience. Because Cal Am continues this deceptive practice
- despite having been addressed numerous times in previous General Rate Cases (GRC),
- the Commission should suspend Cal Am's use of purchased water and purchased power
- 19 balancing accounts for the instant GRC.
- 20 Cal Advocates' proposed adjustments to NARUC Account #744 Chemicals
- 21 correct Cal Am's erroneous forecasting of chemical costs. Cal Am's errors include
- 22 incorrect averaging of chemical quantities and inappropriate inclusion of treated
- 23 purchased water sources into its chemical cost calculations.

<sup>&</sup>lt;sup>1</sup> Please see Cal Advocates witness Andrew Sweeney's direct testimony for analysis and recommendations pertaining to A&G expense budgets.

- 1 Cal Advocates' recommended adjustments to NARUC Account #752 Storage
- 2 Facilities Expenses address Cal Am's unreasonable forecast of consultant expenses and
- 3 unnecessary costs related to water leak detection efforts.
- 4 Cal Advocates' adjustments to NARUC Account #756 Miscellaneous Expenses
- 5 reflect the actual spending pattern for Cal Am's planning studies and maps expenses,
- 6 which has typically been less than the amounts previously authorized and funded by
- 7 ratepayers for this account.

10

- 8 Other adjustments correct errors in calculating inflation and remove duplicate
- 9 expenses across numerous accounts and districts.

Table 1-1 – Comparison of Cal Am and Cal Advocates Proposed Budgets

NARUC	O&M expense	Cal Advocates	Cal Am (d)	Difference (c-d)
Account	accounts (b)	(c)		
# (a)				
703	Miscellaneous Expenses	\$622,637.55	\$681,056.25	-\$58,418.70
704	Purchased Water	\$81,996,785.02	\$76,027,775.86	+\$5,969,009.16
704	Deceptive Pricing Adjustment, Purchased Water	-\$6,486,048.42	0.00	-\$6,486,048.42
713	Maintenance of Other Source of Supply Plan	\$645,856.72	\$647,347.33	-\$1,490.62
725	Purchased Power Misc. Expenses	\$701,546.30	\$701,549.55	-\$3.25
726	Purchased Power	\$11,335,551.57	\$10,722,455.52	+\$613,096.05
726	Deceptive Pricing Adjustment, Purchased Power	-\$1,747,002.25	0.00	-\$1,747,002.25
733	Maintenance of Other Pumping Plant	\$228,622.41	\$229,284.46	-\$662.05
742	Operation Labor and Expenses	\$83,816.27	\$89,666.60	-\$5,850.33
743	Water Treatment Miscellaneous Expenses	\$2,354,612.03	\$2,577,621.35	-\$223,009.32
744	Chemicals	\$1,608,874.47	\$1,804,338.02	-\$195,463.55

748	Maintenance of Water Treatment Equipment	\$807,872.76	\$813,695.64	-\$5,822.87
752	TD Storage Facilities expenses	\$2,693.60	\$1,321,603.67	-\$1,318,910.07
756	Miscellaneous Expenses	\$1,734,645.73	\$3,635,338.09	-\$1,900,692.37
761	Maint. Of Transmission and Distribution Mains	\$105,702.53	\$113,211.21	-\$7,508.68
763	TD Maintenance of Services	\$77,524.17	\$78,008.87	-\$484.70
766	Maintenance of Miscellaneous Plant	\$6,264,597.91	\$6,295,479.92	-\$30,882.01
Totals		\$100,338,288.37	\$105,738,432.34	-\$5,400,143.98

#### III. ANALYSIS

### A. NARUC Account #704: Source of Supply – Purchased Water

Despite being tasked with developing a reasonable budget for 2024, Cal Am calculates purchased water expenses using the rates it was charged in 2022—two years earlier. While it escalates most other expenses by anticipated inflation to arrive at a 2024 budget, for Cal Am's purchased water forecast—which comprises nearly 53 percent of its total expense budget—Cal Am does not forecast any anticipated inflation or cost increases and fails to include the known increases in purchased water costs that have been adopted by water wholesalers or communicated to be in effect for 2024.<sup>2</sup>

Normally, a utility is incentivized to produce as large a budget as possible because any actual spending less than budgeted expenses would result in additional profit. However, when items are tracked in a balancing account—as is the case with purchased water—this incentive is eliminated as any variance

<sup>&</sup>lt;sup>2</sup> \$76,027,776 in Purchased Water costs divided by \$142,658,315 in total expenses approximately equals 53 percent. This total expense figure is derived from Cal Am's Results of Operations model (ALL\_CH04\_O&M\_RO, Summary of Costs NARUC WS11, Q103) and excludes labor and Service Company costs.

between actual and budgeted expenses is either returned or charged to ratepayers. Although the purpose of developing a test year budget (i.e. revenue requirement) is to produce an accurate as possible forecast of revenues and costs in order to provide ratepayers and decisionmakers an understanding of necessary rate changes, Cal Am's under-forecasting of costs tracked in balancing accounts produces a low forecast of rate changes that Cal Am knows it will be able to recoup through surcharges in a subsequent filing with the Commission. The Commission should adopt the following adjustments to Cal Am's purchased water expense forecast based on removing double counted expenses, adhering to historical cost increases, and implementing known and planned future rate changes. First the Commission should make an adjustment to remove double counted costs, which would reduce Cal Am's budget from \$76,027,775.86 to \$75,510,736.60. Second, the Commission should apply historical and known cost increases, which would raise this budget to \$81,996,785.02. Other differences in purchased water expenses resulting from water production estimates are addressed in the testimony of Cal Advocates' witness Herbert Merida.

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The Commission should also adopt a Deceptive Pricing Adjustment, which would lower Cal Am's budget by \$6,486,048.42. This represents a reasonable calculation of the amount of under-forecasted water supply expense.

Also, Cal Am is continuing its practice of requesting artificially low rate changes through under-forecasting costs tracked in balancing accounts in the current GRC even though Cal Advocates has raised concerns about this practice in the past. Therefore, the Commission should suspend the use of balancing accounts for Purchased Water for this GRC cycle.

### 1. Remove Double Counted Purchased Water Expenses for Fruitridge District

Cal Am inappropriately double counted purchased water expenses for the Fruitridge and Monterey-Garrapata Districts. Because Fruitridge and

Monterey-Garrapata are considered part of larger "rollup" districts of Sacramento and Monterey respectively, these expenses are already projected in Cal Am's purchased water workpaper for Northern and Central Division expenses. The Commission should remove these double counted expenses, which amount to \$517,039.26 for TY 2024.3

## 2. Commission Should Take Into Account Historical Cost Increases for Projected Purchased Water Expenses

Cal Am's TY 2024 forecast for purchased water assumes that water rates will not change between 2022 and 2024. This is an unreasonable assumption as 2017-2021 historical data show that overall water costs have steadily increased across all Cal Am districts. Cal Am's practice of underforecasting costs tracked in balancing accounts was first identified in its 2016 GRC. Because of the protections afforded by balancing accounts, under-forecasting provides a false impression that requested rates are lower than what will actually be experienced by ratepayers. In addition to removing the incentive to control costs, balancing accounts also remove the incentive for Cal Am to accurately forecast expenses because any variance between actual and forecasted is resolved through later surcharges.

In the last GRC, Cal Advocates demonstrated how Cal Am underforecasted items tracked in balancing accounts to deceptively understate

 $<sup>\</sup>frac{3}{4}$  Attachment 2 (Double Counted Purchased Water Expenses): CAW Response Cal Adv TGE 07, under Cal Am Response "a.", at 5.

<sup>&</sup>lt;sup>4</sup> Attachment 3 (2017-2021 Recorded Purchased Water Expenses and Purchased Water Rate Increase Calculations for Test Year 2024): 2022-08-05 A2207001 CAW Response Cal Adv TGI 01.pdf, and snapshot of Cal Adv TGI 01 Q001 Attachment 1 (showing all recorded purchases water expenses data from 2017 through 2021).

<sup>&</sup>lt;sup>5</sup> Attachment 4 (Direct Testimony of Anusha Nagesh): Report and Recommendations on Operations and Maintenance and Administrative and General and Expenses, Labor Expenses, Balancing and Memorandum Accounts and Special Requests #2,3, and 13 from A.19-07-004, at 3-7.

ratepayer bill impacts. 6 Cal Advocates' analysis showed that surcharges from all balancing accounts comprised 20% on average of Cal Am customer bills, and as high as 53%. 7 These customer bill impacts were in addition to the rate increases proposed in GRCs.

In the current GRC, a reasonable forecast of purchased water costs would incorporate the average annual percent increase in purchased water rates over the entire period for which historical data has been provided (2017-2021). Incorporating the average annual percent increase results in an approximate increase of \$5,428,819 to Cal Am's forecast for TY 2024.8

### 3. Cal Am Should Have Included All Known Increases in Purchased Water Costs

Commission decisionmakers and ratepayers deserve the best estimate of anticipated bill impacts. To achieve this minimal level of transparency, the most reasonable forecasts of costs must be provided in GRCs. This is especially important for items tracked in balancing accounts like purchased water costs, where all known changes in costs should be incorporated into the forecast.

<sup>&</sup>lt;sup>6</sup> Attachment 5 (Jayne Parker Testimony from A.19-07-004): A.19-07-004, Report and Recommendations on Rates and Surcharges, Jayne Parker at 1-3.

<sup>&</sup>lt;sup>7</sup> Attachment 5 Jayne Parker Testimony from A.19-07-004 at 2.

Attachment 3 shows calculations for average annual percent increases by expense and by district. Calculations utilize historical 2017-2021 rates, as well as 2022 rates for added accuracy, to calculate average annual percent increase for each expense. The average percent increase is applied for each expense for each year to arrive at TY 2024 rates. For example, an average annual percent increase of 5% is applied to a 2022 rate of \$100 and yields a 2023 rate of \$105. 5% is applied again to \$105 to arrive at a 2024 rate of \$110.25. Exceptions to incorporating this increase apply to expenses that remain unchanged from historical years, or expenses with historical years showing a decreasing trend. These expenses retain Cal Am's forecast for TY 2024. Additionally, any year-to-year rate changes greater than 100% are ignored in calculating the average annual percent increase for an expense, since these extreme rate changes are unlikely to occur in the future. Rate adjustments for Pure Water Monterey Rate Per AF uses Escalation Factors from Cal Am to estimate TY 2024 expenses as using only two years of available recorded data results in a year-over-year increase of 20%, and it is uncertain whether this magnitude increase is realistic.

1	For example, in Cal Am's LA-Baldwin Hills and LA-San Marino
2	Districts, purchased water providers have documented planned rate changes
3	for the years 2022 and 2023. In the LA-Baldwin Hills, the West Basin
4	Municipal Water District's (West Basin WMD) 2022-2023 Operating
5	Budget shows that the water agency will increase purchased water rates
6	from the current rate of \$1,488 per acre-foot to \$1,500 per acre-foot for July
7	2022, and to \$1,587 per acre-foot for January 2023. Other West Basin
8	MWD expenses see planned decreases in rates for the years 2022 and 2023,
9	though historical five year data indicate that these rates may still be higher
10	than Cal Am's projections for TY 2024. 10 In Cal Am's LA-San Marino
11	District, the Metropolitan Water District (MWD) documents planned
12	changes to monthly capacity charges, which changes Cal Am's current rate
13	of \$6,687.50 to \$7,422 in 2022, and to \$6,448 in 2023. 12 Cal Am should
14	have incorporated these known cost changes into its proposed budgets.
15	Additionally, in June 2022, the San Diego County Water Authority
16	(SDCWA) approved rate increases of "3.7% for untreated water and of

<sup>&</sup>lt;sup>9</sup> Attachment 6: West Basin Municipal Water District Financial Report at 66; https://www.westbasin.org/wp-content/uploads/2022/08/West-Basin-Operating-Budget-for-Fiscal-Year-2022-2023.pdf.

<sup>10</sup> Attachment 6: West Basin Municipal Water District Financial Report at 70-71. The capacity charge reduces from \$10,025 per cubic foot per second (cfs) in 2022 to \$9,135/cfs in 2023. West Basin MWD multiplies this capacity charge by a customer's 3-year peak of average daily usage (Cal Am's peak is 5 cfs) to yield a customer's capacity charge. This results in a per month capacity charge of \$3,806.24 for 2023 (\$9,135/cfs times 5 cfs, divided by 12 months).

<sup>11</sup> Attachment 6: West Basin Municipal Water District Financial Report at 69. West Basin MWD Monthly Water Service Charge will decrease to \$6,565 in 2022.

<sup>12</sup> Attachment 33: Metropolitan Water District– Rate Structure Administrative Procedures Handbooks for Fiscal Year 2021-2022 and Fiscal Year 2022-2023 at 13 and at 13 for both handbooks. 2022 capacity charge of \$89,060 yields a monthly rate of \$7,421.67 (\$89,060 / 12 months). 2023 capacity charge of \$77,380 yields a monthly rate of \$6,448.33 (\$77,370 / 12 months).

5.2% for treated water" beginning in January 2023.—13 Member agencies,
which includes City of San Diego, Cal Am's sole purchased water
wholesaler in San Diego District, 14 are expected to increase their own water
rates to account for the SDCWA rate increases. As of September 2022, the
City of San Diego proposed an increase of 3% for all water rates for its
customers. 15 Again, Cal Am should have incorporated these increases into
its proposed 2024 budgets.

Adopting these known cost changes in the LA-Baldwin Hills, LA-San Marino, and San Diego districts results in an additional increase of \$1,056,229 to Cal Am's forecast for TY 2024. 16

### 4. Seaside Basin Water Master and Sand City Accounting Errors

In Cal Am's response to Cal Advocates' Data Request TGE-04, Cal Am admits to several accounting errors in its recorded expenses for Sand City and Seaside Basin Water Master. This led to an erroneous escalation of costs for Test Year 2024 in the Central Division. Cal Am agrees to

<sup>13</sup> Attachment 7 (San Diego County Water Authority News Release): "Water Authority Adopts 2023 Rates and Charges," <a href="www.sdcwa.org/water-authority-adopts-2023-rates-and-charges">www.sdcwa.org/water-authority-adopts-2023-rates-and-charges</a>; Attachment 8 (SDCWA June Board Packet Notice to the Public): "Adopt the Water Authority's Rates and Changes for the Year 2023" at 65-66, <a href="https://www.sdcwa.org/wp-content/uploads/2021/11/2022">https://www.sdcwa.org/wp-content/uploads/2021/11/2022</a> 06 23BoardPacketSEC.pdf.

 $<sup>\</sup>frac{14}{12}$  CAW 2022 GRC Final Application, Exhibit B – Volume 1 of 3 (MDR Sections A-F), at 6-5 or p.1449 of 2043.

<sup>15</sup> Attachment 9 (City of San Diego Notice of Public Hearing): "Proposed Increase to Water Rates," https://www.sandiego.gov/sites/default/files/186151 prop 218 notice mailer sept 2022.pdf.

<sup>16</sup> TY 2024 rates for these expenses are calculated using the average annual percent increase based on historical rate changes after the known cost changes are applied to 2022 and 2023 rates. Known 2023 rates are also included in calculating average annual percent increase for these expenses. Refer to Attachment 3 for calculations of the average annual percent increase of historical rate data.

correcting their recorded costs, which results in a reduction of \$78,800 for TY  $2024.\frac{17}{2}$ 

## 5. The Commission Should Institute a Deceptive Pricing Adjustment and Suspend Purchased Water Balancing Accounts for this GRC

To protect customers from Cal Am's deceptive and deliberate underforecasting and resultant surcharges from balancing accounts, the Commission should institute a Deceptive Pricing Adjustment that removes \$6,486,048.42 from Cal Am's 2024 budget. This amount is equal to the amount Cal Am under-forecasted for purchased water. Additionally, the Commission should suspend the use of purchased water balancing accounts for this GRC to send a message to Cal Am that its deliberate lack of transparency and abuse of balancing accounts will not be tolerated.

#### B. NARUC Account #726 – Purchased Power

Like with Purchased Water, Cal Am produces an unreasonable forecast for 2024 Purchased Power expenses by utilizing the same rates as from 2022. Cal Am deliberately under-forecasts purchased power costs by ignoring any anticipated inflation or other cost increases for power. Cal Am also abuses the use of balancing accounts that track Purchased Power expenses. This eliminates the incentive for Cal Am to produce an accurate forecast that anticipates cost increases for power since the variance between actual and budgeted expenses is returned or charged to ratepayers. The result is a deceptive forecast that produces artificially low rates and allows Cal Am to recoup the difference tracked in balancing accounts via surcharges to ratepayers.

<sup>17</sup> Attachment 10 (Seaside Watermaster and Sand City Corrections): 2022-09-07 A2207001 CAW Response Cal Adv TGE 04, and CAW Response Cal Adv TGE 04 Q002.b Attachment 1, which summarizes Original and Corrected expenses for Sand City and Seaside Basin Water Master.

The Commission should adopt the following adjustments based on removing inappropriate double counted expenses and applying historical cost increases for purchased power rates. First, the Commission should make an adjustment to remove double counted purchased power expenses, which reduces Cal Am's forecast from \$10,722,455.52 to \$9,588,549.32. Second, the Commission should apply historical cost increases to this forecast, which results in an increase to \$11,335,551.57. Other differences in purchased power expenses resulting from water production estimates are addressed in the testimony of Cal Advocates' witness Herbert Merida.

Like with Purchased Water, the Commission should also implement a Deceptive Pricing Adjustment for Purchased Power, whereby the Commission should lower Cal Am's total recovery from ratepayers by \$1,747,002.25, which is a reasonable calculation of the amount of deliberately under-forecasted power expenses. Since the deliberate abuse of balancing accounts highlighted in Cal Am's deceptive under-forecasting with purchased water expenses also applies to purchased power, the Commission should also suspend the use of balancing accounts for Purchased Power for this current GRC cycle.

### 1. Removal of Double Counted Purchased Power Expenses for TY 2024

Cal Am inappropriately double counted purchased power expenses for several water systems. <sup>18</sup> Cal Am includes expenses from these smaller water systems and groups them with its larger "roll-up" districts in its purchased power workpaper calculations. However, Cal Am double counted expenses for these water systems by projecting a five-year inflation adjusted average based on their recorded expenses from 2017-2021. Doing so double counts what is already included in Cal Am's purchased power

<sup>18</sup> The affected water systems include Monterey – Toro, Monterey – Garrapata, Dunnigan WW, Geyserville, Meadowbrook, Rio Plaza, Fruitridge, and Hillview.

workpaper, leading to \$1,133,906.20 in double counted expenses for Test Year 2024. Cal Am acknowledges the double counted expenses and agrees to remove them for all projected years, including TY 2024. 19

### 2. The Commission Should Adopt Historical Rate Increases for Projected Purchased Power Expenses

Cal Am unreasonably forecasts flat and uniform power rates from 2022 through TY 2024. Historical data from 2017-2021 historical data indicate that overall power costs have steadily increased across all Cal Am districts. <sup>20</sup> Like with purchased water, past testimony and current findings indicate an abusive pattern of deliberate under-forecasting for purchased power expenses tracked in balancing accounts. <sup>21</sup> The extraordinary protections afforded by balancing accounts allow Cal Am to give the false impression of low rates by under-forecasting expenses for TY 2024, knowing that the difference between actual and budgeted purchased power expenses will be paid for by California ratepayers via surcharges.

For this current GRC period, the Commission should adopt an annual increase of 5.74% on the cost per kilowatt hour (\$/KWH) for purchased power. 5.74% represents the average historical annual increase in cost per kilowatt hour rates for recorded years 2017-2021.<sup>22</sup>

<sup>19</sup> Attachment 11 (Double-Counted Purchased Power Expenses): 2022-11-30 A2207001 CAW Response Cal Adv TGE 14, at 4-5.

<sup>20</sup> Attachment 12 (Purchased Power 2017-2021 Recorded Year Rate Increases): 2017-2020 data from CAW Response Cal Adv TGE 02 Q001 Attachment 1, and 2021 data from workpaper ALL\_CH04\_O&M\_WP\_Purchased Power, worksheet tab Purchased Power Details WS-1.

Attachment 4 (Direct Testimony of Anush Nagesh): Report and Recommendations on Operations and Maintenance and Administrative and General and Expenses, Labor Expenses, Balancing and Memorandum Accounts and Special Requests #2,3, and 13 from A.19-07-004 at 3-7.

<sup>22</sup> Attachment 12 explains calculation for 5.74% annual increase for \$/KWH.

Incorporating an annual increase of 5.74% results in an increase of \$1,747,002 to Cal Am's TY 2024 forecast.

## 3. The Commission Should Adopt a Deceptive Pricing Adjustment and Suspend Purchased Power Balancing Accounts for this GRC

Similar to purchased water, the Commission should protect customers from Cal Am's deceptive and deliberate under-forecasting and resultant surcharges from balancing accounts by instituting a Deceptive Pricing Adjustment that removes \$1,747,002.25 from Cal Am's budget for TY2024. This amount is equal to the amount Cal Am under-forecasted for purchased power. The Commission also should suspend the use of purchased power balancing accounts for this GRC to signal to Cal Am that its deliberate under-forecasting and abuse of balancing accounts will not be tolerated.

#### C. NARUC Account #744 - Chemical Expenses

Cal Am calculates chemical expenses by utilizing a three-year historical average of chemical quantities by district and dividing by the three-year historical average total water production in one-hundred cubic feet (CCF) for that same district to arrive at a pounds of chemical per CCF of water figure. Cal Am then takes the pound per CCF number for each chemical and multiplies by the projected total water production for that district to arrive at the projected chemical quantity for each year. The chemical quantity is then multiplied by cost per unit factor to arrive at the annual expenses for that chemical. The cost per unit factor for each unique chemical is based on the current 2022 price, which is then increased by inflation to arrive at the 2024 budget. 23

<sup>23</sup> Direct Testimony of Bahman Pourtaherian at 17-18.

Cal Am committed errors in its forecasting methodology for chemical expenses. These errors include incorrectly excluding years of zero usage for certain chemicals and not distinguishing between pumped and purchased water when calculating total chemical costs. Using Cal Am's methodology would result in an inaccurate forecast of chemical expenses. Instead, the Commission should adopt a budget that utilizes a five-year inflation adjusted average as Cal Am proposed in its last GRC.<sup>24</sup> A five-year inflation adjusted average reduces Cal Am's forecast from \$1,804,338.02 to \$1,608,874.47. Any other differences in the chemical expense forecast may be the result of differences in water production estimates addressed in the testimony of Cal Advocates' witness Herbert Merida. Table 1-2 compares Cal Am's and Cal Advocates' forecasts for chemicals for TY 2024.

Table 1-2 – Comparison of Cal Advocates' Recommended and Cal Am Requested
Chemicals Budgets for TY 2024

NARUC Account (a)	Cal Advocates	Cal Am	Cal Adv < Cal Am
	Recommended (b)	Requested (c)	(b-c)
744 Chemicals	\$1,608,874.47	\$1,804,338.02	-\$195,463.55

#### 1. Erroneous Three-Year Average

California American Water states that "chemical costs were calculated based on three years of average actual chemical usage" for its forecasting methodology. However, for several chemicals, Cal Am does not use a three-years average of chemical quantity; instead, Cal Am omits years within the three-year period with zero usage. For example, where a

<sup>24</sup> Attachment 13 (2019 Pourtaherian Testimony on Chemical Expenses): Direct Testimony of Bahman Pourtaherian at 19 from Cal Am's 2019 GRC Application (A.19-07-004).

<sup>25</sup> Direct Testimony of Bahman Pourtaherian, at 17.

chemical was deployed in only two out of the three historical years, CAW's methodology omits the year with zero chemical usage, resulting in a two-year average. Similarly, for chemicals with only one year of historical usage, CAW omits the other two years of zero usage and labels the single year historical amount as the "three-year" historical average. Correcting for Cal Am's erroneous averaging results in approximately a \$17,822 reduction.

### 2. Inappropriate Inclusion of Purchased Water in Forecast Calculations

Cal Am also erroneously forecasts chemical expenses by incorporating a three-years average total water production into its calculations without distinguishing between pumped water and purchased water for Cal Am districts that utilize both sources. Purchased water is typically treated with chemicals before being purchased from wholesaler water agencies. For example, in the Los Angeles District, Cal Am purchases treated water ready for potable use from The Metropolitan Water District of Southern California (MWD) and from the West Basin Municipal Water District (WBMWD). <sup>26</sup> <sup>27</sup> In the Sacramento District, Cal Am purchases water from the City of Sacramento, which treats surface water from the Sacramento River at its two water treatment plants before entering its water distribution system. <sup>28</sup> The City of Sacramento also delivers

<sup>26</sup> CAW 2022 GRC Final Application Exhibit B – Volume 1 of 3 (MDR Sections A-F), Los Angeles County District 2020 Urban Water Management Plan, at 6-11 to 6-12, or at 548 to 549 out of 2043.

<sup>27</sup> Attachment 14 (Metropolitan Water District of Southern California Water Treatment) shows of MWD's chemical water treatment process. <a href="www.mwdh2o.com/your-water/water-quality-and-treatment/">www.mwdh2o.com/your-water/water-quality-and-treatment/</a>. Retrieved March 11, 2023.

<sup>28</sup> Attachment 15 (City of Sacramento 2020 Urban Water Management Plan) at ES-3 or at 20 of 448. <a href="http://www.cityofsacramento.org/-/media/Corporate/Files/DOU/Reports/Sacramento-2020-UWMP---Final-w-Ltr-of-Acceptance.pdf?la=en">http://www.cityofsacramento.org/-/media/Corporate/Files/DOU/Reports/Sacramento-2020-UWMP---Final-w-Ltr-of-Acceptance.pdf?la=en</a>.

groundwater which is treated on site at its various groundwater wells. 29

The City of Sacramento's water distribution system is a single system that delivers "Drinking Water" quality water to both its retail customers and wholesale customers, including Cal Am. 30 31 32

The evidence clearly demonstrates that Cal Am's purchased water supply undergoes treatment. Therefore, the per unit cost of purchased water already reflects the application of chemicals by these agencies. By not distinguishing between pumped and purchased water, Cal Am inaccurately forecasts the projected amount of chemicals for water treatment. Correcting Cal Am's error by excluding purchased water from its chemicals forecast calculation results in approximately a \$177,642 reduction.

Consequently, the Commission should adopt a 5-year inflation adjusted average to forecast Cal Am's chemical expenses. The resulting amount would closely approximate corrections to Cal Am's erroneous forecasts, as well as offer a more reasonable and simpler methodology for predicting chemical costs.

<sup>29</sup> Attachment 16 (City of Sacramento Drinking Water Source and Treatment): City of Sacramento Utilities website. <a href="https://www.cityofsacramento.org/Utilities/Water-Water-Quality/Where-Your-Water-Comes-From">www.cityofsacramento.org/Utilities/Water-Water-Quality/Where-Your-Water-Comes-From</a>. Retrieved March 11, 2023.

<sup>30</sup> Attachment 15 (City of Sacramento 2020 Urban Water Management Plan) at 4-11 or at 59 of 448. "The City's distribution system for retail and wholesale customers is a single system and not separated."

<sup>31</sup> Attachment 15 (City of Sacramento 2020 Urban Water Management Plan): Table 4-7 Wholesale Demands at 4-7 or p 55 of 448.

<sup>32</sup> Attachment 17 (Department of Water Resources Submittal Table 4-1): Snapshot of Excel workbook template for Attachment 15's Table 4-7. Shows three dropdown choices for water quality treatment levels, which include "Drinking Water", "Raw Water," and "Other Non-Potable Water," demonstrating that the selection of "Drinking Water" in Table 4-7 shows that water delivered to Cal Am is treated. Obtained at Department of Water Resources Water Use Efficiency Data website. <a href="https://wuedata.water.ca.gov/public/public\_resources/7257642447/FINAL%20Submittal%202020%20UWMP%20Tables%2005.20.2021.xlsx">https://wuedata.water.ca.gov/public/public\_resources/7257642447/FINAL%20Submittal%202020%20UWMP%20Tables%2005.20.2021.xlsx</a>. Retrieved March 11, 2023.

### D. NARUC Account #752: Storage Facilities Expenses (Water Loss Performance Standards)

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Cal Am is requesting \$3,948,646.58 in operational expenses spread equally across the years 2024-2026, resulting in \$1,316,216 for TY 2024 for expenses related to Water Loss Performance Standards. 33 34 Water loss performance standards are set by an economic model currently in development by the State Water Resources Control Board (SWRCB) and primarily address real water loss.

35 Real water loss specifically refers to physical water loss resulting from systems leakage. State water providers enter various inputs, such as number of service connections and leakage volume, into the economic model to provide an individualized water loss standard. 37

The Commission should deny the entirety of Cal Am's request of \$1,316,216 for operational expenses related to Water Loss Performance Standards in TY 2024, due to no current agreed upon SWRCB performance standards, the unreasonableness of Cal Am's proposed consultant fees, and the redundancy of existing mains replacement programs and other surveys that already engage in proactive leak detection. These reasons are explained in detail in the sections below.

<sup>33</sup> Direct Testimony of Patrick Pilz, at 35-37, and at Attachment 7.

<sup>34</sup> Workpaper ALL\_CH04\_O&M\_WP\_Other O&M Exp Adj.xlsb, worksheet tab INPUT Adjustments, cells T99 through T104, and cells U99 through U104. Each year totals \$1,316,216 in expenses.

<sup>35</sup> Attachment 18 (Water Loss Performance Standards Draft Regulatory Text): Section 981 Volumetric Water Loss Performance Standards and Section 982. Economic Model, at 8-18. <a href="https://www.waterboards.ca.gov/water\_issues/programs/conservation\_portal/docs/2022/water-loss-regulatory-text-10-14-22.docx">https://www.waterboards.ca.gov/water\_issues/programs/conservation\_portal/docs/2022/water-loss-regulatory-text-10-14-22.docx</a>

<sup>36</sup> Attachment 19 (Fact Sheet on Water Loss Performance Standards) at 1 of 4, Footnote 2. Real water loss is defined as "the physical loss of water from water distribution systems." <a href="https://www.waterboards.ca.gov/conservation/docs/waterlosscontrol/2020/waterlossperformancestandards-factsheet\_18november2020.pdf">https://www.waterboards.ca.gov/conservation/docs/waterlosscontrol/2020/waterlossperformancestandards-factsheet\_18november2020.pdf</a>. Retrieved March 17, 2023.

<sup>37</sup> Attachment 19 (Fact Sheet on Water Loss Performance Standards) at 4 of 4, Background section.

### 1. No Agreed Upon Economic Model Set by the SWRCB

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Cal Am and other urban water providers will have individualized water performance loss standards based on their individual inputs into SWRCB's economic model. However, SWRCB's text of proposed regulations for Water Loss Performance Standards, including the economic model, have yet to be finalized. SWRCB's Draft Regulatory Text for Water Loss Performance Standards was last updated on October 14<sup>th</sup>, 2022. The SWRCB last held a board hearing on October 19<sup>th</sup>, 2022, and released a draft response to various comments and proposed changes to the performance standards. There is no indication that SWRCB has finalized either the regulatory text or economic model for the Water Loss Performance Standards. Cal Am's estimates for leak detection is based in part on SWRCB's economic model. Estimating operational expenses for Water Loss Performance Standards without a finalized economic model would be premature and likely to result in an inaccurate forecast.

### 2. Unreasonableness of Cal Am's Proposed Consultancy Costs

Cal Am estimates consultant expenses at \$1,500,000 over three years, bringing annual consulting expenses to \$500,000 in TY 2024. This estimate assumes an expense of \$250,000 for each of Cal Am's six districts over three years. 40 Cal Am explains that this amount was provided by its

<sup>38</sup> Attachment 20: SWRCB Water Loss Website <a href="https://www.waterboards.ca.gov/conservation/water\_loss\_control.html">https://www.waterboards.ca.gov/conservation/water\_loss\_control.html</a>. Retrieved April 3, 2023.

<sup>39</sup> Attachment 20: SWRCB Water Loss Website. Draft response to comments may also be viewed at <a href="https://www.waterboards.ca.gov/water\_issues/programs/conservation\_portal/docs/2022/draft-water-loss-response-to-comments.docx">https://www.waterboards.ca.gov/water\_issues/programs/conservation\_portal/docs/2022/draft-water-loss-response-to-comments.docx</a>

<sup>40</sup> Direct Testimony of Patrick Pilz, at 35-37, and at Attachment 7.

consultant, E-source, as an estimate based on prior experience providing consulting services for other water agencies and providers. 41

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Cal Am's estimate is unreasonable for the following reasons. The assumption that each of Cal Am's six primary districts would each yield the same expense is unreasonable given that these service areas vary greatly in size, area, and number of customers. For example, as of 2021, Cal Am serves approximately 21,791 customers in the San Diego District and 69,059 customers in the Sacramento District. 42 Cal Am also states in a data request response that "individual district consulting costs will ultimately vary based on scope and efforts needed to bring each service area into compliance." 43 Basing expense estimates on prior consulting experience with other water provider agencies is also unreasonable, as the scope, needs, and circumstances of various providers is also likely to differ greatly. The Water Loss Performance Standards themselves are intended to provide individualized standards based on the unique needs and circumstances of each urban water provider. Cal Am provides no other justification for consultancy expenses other than citing the E-Source estimate. When asked to provide documentation to justify the expense of \$250,000 for each district, Cal Am could not do so.44

<sup>41</sup> Attachment 21:2022-12-07 A2207001 CAW Response Cal Adv TGE 15, at 5-6

<sup>42</sup> The Sacramento District encompasses eight service areas: Sacramento, Meadowbrook, Fruitridge, Hillview, Dunnigan, Dunnigan Wastewater, Geyserville, and Bass Lake. Refer to workpaper All\_CH03\_REV\_RO\_Sales-Customers, worksheet tab Rec Customers WS-01 for customer numbers.

<sup>43</sup> Attachment 21: A2207001 CAW Response Cal Adv TGE 15, at 5-6

<sup>44</sup> Attachment 21: A2207001 CAW Response Cal Adv TGE 15, at 4-6

### 3. Adequacy of Cal Am's Current Leak Detection Efforts

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Cal Am currently implements robust mains improvement and replacement programs in its service areas, making Cal Am's request for additional expenses related to leak detection for water loss performance standards redundant. The implementation of these main replacement programs is based on Cal Am's Condition Based Assessments (CBA). A primary purpose of a CBA is to "identify water mains that need rehabilitation and/or replacement." Leak and breakage history is a key evaluation criterion in the main replacement CBA, indicating that Cal Am already performs routine proactive leak detection through CBAs. For example, as cited in the testimony of Cal Advocates' witness Sari Ibrahim, Cal Am cancelled its Ventura St. Charles Oaks Apartments Main Replacement project, citing an inspection that demonstrated the existing main's adequacy. 47

### 4. Cal Am's Reported Average Water Loss Falls Well Below the State Average

Cal Am's current and historic water loss data also show that Cal Am's current efforts and budget adequately support robust and proactive leak detection. As part of requirements set by "Minimum Data Requirement II.E.3. – Water Loss Audit," Cal Am already provides annual water loss audit data for each of its stand-alone water systems across Cal

<sup>45</sup> Attachment 22: Cal Am Los Angeles County District 2019 Condition Based Assessment (Redacted), Section 1 Existing System, attached as part of the redacted public version of California American Water 2019 Los Angeles Country District Comprehensive Planning Study, p. 942 of 1495.

<sup>46</sup> Attachment 22: Cal Am Los Angeles County District 2019 Condition Based Assessment (Redacted), Section 2 Main Replacement Methodology, 2.3.8 Break/Leak History, attached as part of the redacted public version of California American Water 2019 Los Angeles Country District Comprehensive Planning Study, at 950 and 959 of 1495.

<sup>47</sup> Refer to the Testimony of Cal Advocates' witness Sari Ibrahim.

Am's six districts. Figure 1-1 below compares Cal Am's annual average real water losses to the annual statewide average of all reporting California water suppliers. The data clearly shows that Cal Am's real water loss figures are already well below the statewide average. In 2021, Cal Am reported a company-wide average of 254 acre-feet of real water loss for its water systems, far lower than the statewide average of 609 acre-feet. The data shows similar disparities across the years 2016-2021. The data demonstrates that Cal Am's current leak detection efforts are robust and adequate. Therefore, Cal Am's request for additional leak detection expenses for water loss performance standards is redundant and imprudent.

Figure 1-1: Cal Am Average Real Water Loss and Statewide Average Real Water Loss



<sup>48</sup> Cal Am's 2022 GRC Application, Exhibit B Vol. 1 of 3 MDR Sections A-F for MDR II.E.3 – Water Loss Audit, at 366 of 2043.

<sup>49</sup> Water audit data was obtained from Water Loss Audit Reports data hub at the Water Use Efficiency Data (WUEdata) website maintained by Department of Water Resources. https://wuedata.water.ca.gov/awwa export. Retrieved March 12, 2023.

#### E. NARUC Account #756 - Miscellaneous Expenses

NARUC Account #756 Miscellaneous Expenses includes expenses related to Planning Studies, Comprehensive Planning Studies (CPS), and System Maps. Each of these three items are broadly referred to as "planning studies and system maps costs" both in Cal Am's literature and in this testimony. Cal Am planning studies proposed outside of CPS are hereby referred to as "individual planning studies." Cal Am sums up expenses for planning studies, CPS studies, and systems maps to yield total expenses for each year. Cal also estimates planning studies and map expenses for Escalation Years 2025 and 2026, with many individual planning studies slated to begin in those years. Lastly, Cal Am proposes splitting all planning studies and system maps expenses for 2024 through 2026 into equal amounts across these three years to arrive at its planning studies and maps budget of \$2,283,100 for TY 2024.

The Commission should limit Cal Am's request for individual planning studies to 40% of proposed expenses due to past underspending for individual planning studies expenses. The Commission should also adopt a five-year inflation adjusted average for maps expenses due to a consistent pattern of underspending dating back to Cal Am's 2016 GRC. Lastly, the Commission should disallow the entirety of Cal Am's proposed expenses related to CPS studies, due to the planning length of already completed CPS studies and the ability of Cal Am's in house engineers to complete future CPS studies. These reductions also affect Cal Am's estimates for 2025 and 2026, which in turn affect TY 2024 estimates due to Cal Am's proposal to equally split these expenses across

<sup>50</sup> Direct Testimony of Ian Crooks, Section XVI. Planning Studies and System Maps, at 241-248.

<sup>51</sup> Direct Testimony of Ian Crooks, at 247-248, Planning Studies and System Maps Costs.

<sup>52</sup> Direct Testimony of Ian Crooks, at 247-248 and Workpaper ALL\_CH04\_O&M\_WP\_Other O&M Exp Adj.xlsb, worksheet tab INPUT Adjustments, cells T27, U27, T35, U35, T43, U43, T55, U55, T63, U63, T71, U71, T79, and U79.

2024 through 2026. This reduces Cal Am's planning studies, CPS, and system maps forecast for TY 2024 from \$2,283,100 to \$645,931.26, a reduction of \$1,637,168.74. The Commission should also reduce NARUC Account #756 expenses by an additional \$198,394.89 due to duplicate expenses already accounted for in Cal Am's forecast for Planning Studies and Maps expenses. The Commission should also reduce Cal Am's budget by \$65,128.74 due to an averaging error in Cal Am's forecasting in several Cal Am Districts as explained in Section F: Averaging Error in Cal Am Forecasting, of this testimony. In sum, these adjustments reduce Cal Am's overall forecast for NARUC Account #756 expenses from \$3,635,338.09 to \$1,734,645.73.

## 1. The Commission should limit Cal Am's request for individual planning studies to 40% of proposed expenses due to past underspending.

Cal Advocates sampled various Cal Am individual planning studies expenses from then Test Year 2021, which amounted and reviewed to \$2,272,250 of approved expenses. Cal Am spent only \$911,843, or 40% overall, of the approved \$2,272,250 for this sample. For example, the Los Angeles Well Plan Study and Ventura Water Storage Tank Seismic Study spent 9% and 25% of their allocated approved expense amounts respectively. Only one study, Cal Am's company-wide study on portable generators, met its approved expense amount for 2021. Table 1-3 below shows the specific 2021 studies sampled and compares their approved spends to Cal Am's actual recorded expenses for these specific planning studies.

Table 1-3 –2021 Expenses Comparison for Sampled 2021 Individual Planning
Studies <sup>53</sup>

District & Study	Authorized	Invoiced	Difference (b-
	(a)	(b)	a)
Monterey SCADA	\$222,250	\$89,500	-\$132,750
Master Plan			
Los Angeles Tank	\$500,000	\$198,567	-\$301,433
Seismic Assessment			
Los Angeles Well	\$150,000	\$13,431	-\$136,569
Master Plan			
Ventura Water Storage	\$700,000	\$172,975	-\$527,025
Tank Seismic Study			
Ventura Integrated	\$550,000	\$230,000	-\$320,000
Water Supply			
CAW Corporate	\$150,000	\$207,370	\$57,370
Portable Generator			
Power Shutoff Study			
Total	\$2,272,250	\$911,843	-\$1,360,407

Invoices from the sampled studies also show that Cal Am contracted for planning studies well below the amounts approved by the Commission for then Test Year 2021. Invoices for Cal Am's Ventura Water Storage Tank Seismic Study show that Cal Am contracted this study for \$376,598 when it received Commission approval for \$700,000. Similarly, Cal Am's Ventura Integrated Water Supply (IWS) study received Commission approval for \$550,000, but Cal Am contracted this study for \$320,000. The difference between the Commission's authorized amounts and Cal

 $<sup>\</sup>underline{53}$  Attachment 23: 2022-10-07 A2207001 CAW Response Cal Adv TGE 11 showing actual expenses for the studies sampled in the data request at 5-7.

<sup>54</sup> Attachment 24: 2022-10-07 A2207001 CAW Response Cal Adv TGE-11 Q002 Attachment 4 (Ventura Seismic Tank Assessments Spend).

<sup>55</sup> Attachment 25: 2022-10-07 A2207001 CAW Response Cal Adv TGE-11 Q002 Attachment 5 (IWS Master Plan Ventura Spend).

Am's contract amounts for these two studies results in \$503,402 of pure profit at California ratepayers' expense.

These facts demonstrate a pattern of purposeful underspending well below amounts authorized by the Commission. It is reasonable to conclude that Cal Am's proposed budget estimates for these planning studies exceed the necessary cost of their execution. Based on findings that Cal Am spent only 40% of its approved budget for these sampled planning studies, the Commission should only allow Cal Am to recover 40% of expenses for its proposed specific planning studies other than CPS for TY 2024. This reduction also applies to all individual planning studies that are scheduled to begin in the 2025 and 2026 Escalation Years since Cal Am proposes splitting planning studies costs equally across all three years in the GRC period. This reduces Cal Am's budget for individual planning studies by \$360,600, from \$601,000 to \$240,400 for TY 2024.

#### 2. Cal Am Underspending for Maps Expenses

Cal Am demonstrates a consistent pattern of underspending for its mapping and GIS expenses dating back to its 2016 GRC. Recorded data from years 2017 through 2021 show that Cal Am spent \$140,263 on systems maps expenses, or 19.87% of Cal Am's proposed total for Test Years 2018 and 2021. Table 1-4 below shows both Cal Am's projected and actual maps expenses for this period. Cal Am explains its lack of spending in 2020 and 2021 by citing extenuating circumstances from the

<sup>56</sup> Attachment 26: 2022-12-21 A2207001 CAW Response Cal Adv TGE 16. Snapshot of CAW Response Cal ADV TGE 16 Q001 a-f Attachment 1 showing recorded maps expenses for 2017-2021

<sup>57</sup> Data breakdown for projected maps expenses: 2018 data from Attachment 27: Decision 18-12-021, Decision Adopting the 2018, 2019, and 2020 Revenue Requirement for California-American Water Company, Section 7.7., at 64; 2019 through 2021 data from Attachment 28 (Projected Maps Expenses 2018-2021) showing "Attachment B-6 For Settlement Planning Studies and Mapping" as found in California-American Water Company Notice of Updated Settlement Agreement for A.19-07-004.

COVID-19 pandemic. Statement Agreement from its 2019 GRC show no projected maps expenses for 2019 and 2020. Additionally, Cal Am spent just \$10,825 of its approved \$327,080 for maps expenses in TY 2018. This closely matches Cal Am's spending for TY 2021, which shows a spend of \$10,663 compared to a Commission approved amount of \$378,900, showing that Cal Am's underspending in 2021 is not due to the pandemic, but rather is in line with Cal Am's historical spending for maps expenses. The Commission uncovered similar issues with Cal Am's 2016 GRC. Cal Am was unable to provide satisfactory support for its 2012 and 2015 maps expenses, and the Commission subsequently ruled that Cal Am reduce its maps budget by 50%. Cal Am repeats this pattern of underspending for maps expenses for this current GRC.

Consequently, the Commission should adopt a 5-year inflation adjusted average of recorded 2017-2021 maps expenses, which lowers Cal Am's TY 2024 forecast from \$473,600 to \$36,531.26, a reduction of \$437,068.74. This amount provides a more reasonable approximation of TY 2024 expenses based on Cal Am's actual spending for maps expenses.

Table 1-4 – Cal Am Maps Expenses for 2018-2021

Expense Type	TY 2018	2019	2020	TY 2021	Total
Projected	\$327,080	\$0	\$0	\$378,900	\$705,980
Actual	\$10,825	\$118,775	\$0	\$10,663	\$140,263

<sup>58</sup> Attachment 26: 2022-12-21 A2207001 CAW Response Cal Adv TGE 16 at 6-8.

<sup>59</sup> Attachment 27: Decision 18-12-021, Decision Adopting the 2018, 2019, and 2020 Revenue Requirement for California-American Water Company, Section 7.7., at 62-64.

### 3. The Commission Should Remove all CPS Expenses for this GRC

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The Commission should remove all expenses related to Comprehensive Planning Studies for this GRC, totaling \$806,166.67 for TY 2024, due to the planning length of already completed CPS studies and the adequacy of Cal Am's in-house engineers and resources to carry out CPS studies. Generally, Cal Am's CPS studies forecast customer needs and projections as far as the year 2035 for the purpose of providing recommendations for capital improvements and projects. These facts demonstrate that Cal Am's already completed CPS adequately cover an ample period of time up to the year 2035.

Additionally, Cal Am employs the services of various consultants to assist with and perform activities related to the completion of CPS, resulting in recommendations for new capital projects. However, the decision on whether these projects proceed with construction is made by Cal Am's pay-rolled engineers. As shown in Minimum Data Requirement II.D.5 – Plant Improvements Authorized But Not Built, many of these capital projects arising from CPS recommendations have been cancelled. This suggests that Cal Am's own engineers are capable of carrying out functions and needs of CPS studies to determine the necessity of capital projects. Therefore, should Cal Am execute additional CPS studies for this GRC, any labor, surveying, and other CPS-related activities for CPS

<sup>&</sup>lt;sup>60</sup> Cal Am proposes \$2,418,500 in total CPS costs but spreads these costs evenly across years 2024-2026, resulting in \$806,166.67 for TY 2024. See Testimony of Ian Crooks, at 247-248, Planning Studies and System Maps Costs.

<sup>61</sup> Attachment 29: California American Water 2019 Los Angeles County District Comprehensive Planning Study (Redacted), describing Cal Am's 2035 planning benchmarks in Executive Summary at 22 of 1495, and in Section 2 Comprehensive Planning Process, at 133-134 of 1495.

<sup>62 2022</sup> GRC Exhibit B Vol. 1 of 3 MDR Sections A-F for MDR II.D.5 – Plant Improvements Authorized But Not Built, p. 338-348.

expenses can be adequately covered by Cal Am's own in-house engineering team.

## 4. Removal of Double Counted Expenses Related to Plannings Studies, CPS Studies, and Maps Expenses

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Cal Am double counted planning studies expenses in the districts of Dunnigan, Geyserville, Meadowbrook, Fruitridge, and Hillview. Cal Am forecasts its expenses for Planning Studies and Maps by using specific adjustments for individual planning studies and CPS studies, Urban Water Management Plan (UWMP), Risk and Resilience Assessment (RRA), and maps expenses. However, Cal Am employs an inflation-adjusted, fiveyears recorded average to forecast TY 2024 expenses for these districts. This forecast duplicates what is already included in Cal Am's specific adjustment forecast for two reasons: 1) the 2020 and 2021 recorded expenses for these districts are composed primarily of UWMP, RRA, and planning studies expenses upon which Cal Am's specific adjustments forecast are based, and 2) these districts' expenses are already "rolled-up" into the Sacramento District. Sacramento District's forecast for planning studies and maps expenses already include these sub-districts' expenses. Therefore, the Commission should remove these duplicate expenses from all projected years including TY 2024. This results in a \$198,394.89 reduction for TY 2024.

#### F. Cal Am Averaging Error in Forecasting

Cal Am commits a significant averaging error in its forecasting methodology that affects various NARUC Accounts for various Administrative and General and Maintenance and Operations expenses. This error led to Cal Am inflating its forecasted TY 2024 expenses in the districts of Rio Plaza, Fruitridge, and Hillview by an additional \$381,876.78 for NARUC Accounts pertaining to

Maintenance and Operations. 63 The Commission should remove the \$381,876.78 in inflated expenses. The sections below detail Cal Am's averaging errors and how to correct them in each of the three affected districts. For the averaging error's effects on A&G expenses, refer to the testimony of Cal Advocates Office witness Andrew Sweeney.

#### 1. Rio Plaza District

Cal Am acquired and assumed operational control of Rio Plaza Water Company in 2019. Cal Am does not incorporate recorded data into its 5 years of recorded data for acquired systems until it assumes operational control. This results in three years of recorded data from 2019-2021 for Rio Plaza. Rio Plaza's TY 2024 forecast for various expenses should be based on a three-year inflation adjusted average of recorded expenses from 2019 through 2021. However, Cal Am commits an averaging error by dividing the sum of its recorded expenses by two years instead of three. This results in increased TY forecasts that are inflated by as much as 67%. The Commission should remove these inflated expenses from TY 2024 by correcting this averaging error to reflect a true three-years average of recorded expenses.

#### 2. Fruitridge District

Cal Am acquired and assumed operational control of the Fruitridge Vista Water Company in 2020.-65 TY 2024 forecasts for various Fruitridge

<sup>63</sup> The NARUC Accounts affected include 703, 713, 725, 733, 742, 743, 748, 752, 756, 761, 763, and 766.

<sup>64</sup> Attachment 30: American Water Press Release - "California American Water Acquires Rio Plaza Water Company." <a href="https://www.amwater.com/press-room/press-releases/california/california-american-water-acquires-rio-plaza-water-company">https://www.amwater.com/press-room/press-releases/california/california-american-water-acquires-rio-plaza-water-company</a>. Retrieved March 11, 2023.

<sup>&</sup>lt;u>65</u> Attachment 31: American Water Press Release - "California American Water Acquires the Operating Assets of the Fruitridge Vista Water Company." <u>https://www.amwater.com/press-room/press-</u>

expenses should be based on a two-year inflation adjusted average of recorded expenses from 2020 through 2021. However, like with Rio Plaza, Cal Am commits an averaging error by dividing the sums of its two-year recorded expenses by one year instead of two. This results in an increased TY forecast that is inflated by as much as double the appropriate forecast. The Commission should remove these inflated expenses from TY 2024 by correcting this averaging error to reflect a true two-year average of recorded expenses for Fruitridge District.

#### 3. Hillview District

Cal Am acquired and assumed operational control of the Hillview Water Company in 2020. TY 2024 forecasts for various Fruitridge expenses would be based on a two-year inflation adjusted average of recorded expenses from 2020 through 2021. As before, Cal Am also commits an averaging error by dividing the sums of its two-year recorded expenses by one year instead of two, inflating its TY forecast by as much as double. The Commission should remove these inflated expenses from TY 2024 by correcting this averaging error to reflect a true two-year average of recorded expenses for Hillview District.

## G. Double Counted Amortization of Tank Painting Expenses in NARUC Account #766 Maintenance of Miscellaneous Plant

Like double counted expenses for purchased water, purchased power, and planning studies, Cal Am also double counted \$5,722 in expenses related to the amortization of tank painting projects in NARUC Account #766. Cal Am

<sup>&</sup>lt;u>releases/california/california-american-water-acquires-operating-assets-fruitridge-vista-water</u>. Retrieved March 11, 2023.

<sup>4</sup>ttachment 32: American Water Press Release "California American Water Acquires Hillview Water Company." <a href="https://www.amwater.com/press-room/press-releases/california/california-american-water-acquires-hillview-water-company">https://www.amwater.com/press-room/press-room/press-releases/california/california-american-water-acquires-hillview-water-company</a>. Retrieved March 11, 2023.

projected a 5-year inflation adjusted increase for amortization of tank painting projects in the Rio Plaza, Geyserville, and Hillview service areas, which double counts costs that are calculated in Cal Am's separate amortization workpaper. The Commission should remove the \$5,722 of double counted expenses.

#### IV. CONCLUSION

Cal Am's deceptive under-forecasting of Purchased Water and Purchased Power expenses from 2022 through TY 2024 is unrealistic and allows Cal Am to blatantly abuse balancing account surcharges to recover an increasingly larger share of revenue outside of base rates set by the Commission. The Commission should implement realistic rates that adhere to historical cost increases and planned future rate changes. The Commission should also institute Deceptive Pricing Adjustments to deny Cal Am recovery of the amounts it deliberately under-forecasted, which are \$6,486,048.42 for purchased water expenses, and \$1,747,002.25 for purchased power expenses. Lastly, the Commission should suspend Purchased Water and Purchased Power balancing accounts for this GRC period due to Cal Am's continuous abuse of these accounts.

Cal Am's forecasting methodology for chemical expenses results in an inaccurate budget due to averaging errors and the inappropriate inclusion of pre-treated purchased water in its chemical cost calculations. The Commission should instead adopt a five-year inflation adjusted average for chemical expenses, reducing Cal Am's forecast from \$1,804,338.02 to \$1,608,874.47. Returning to a five-year inflation adjusted average results in a more accurate and reasonable forecast for chemical expenses.

Due to the lack of a current agreed upon economic model from the State Water Resources Control Board, the unreasonableness of Cal Am's consultancy expenses, and the adequacy of Cal Am's current proactive leak detection, the Commission should deny Cal Am's request for \$1,316,216 in operational expenses related to the Water Loss Performance Standards. Cal Am's proposal for these operational expenses are unreasonable and would be duplicative of its current leak detection efforts.

The Commission should address Cal Am's consistent pattern of underspending for its individual planning studies and maps-related expenses by reducing these budgets by \$360,600 and \$437,068.74 respectively. The Commission should also deny Cal Am's request for \$806,166.67 for CPS studies, due to the planning length of completed CPS studies and the adequacy of Cal Am's own engineering teams to conduct any future CPS studies.

Lastly, the Commission should correct various forecasting errors for TY 2024 expenses that arise from double counting of projected expenses or from erroneous averaging of recorded expenses across several NARUC accounts. These errors either double count expenses already accounted for in Cal Am's separate workpaper calculations, or they erroneously overinflate projected expenses due to using the incorrect number of years for averaging recorded expenses. Correcting these errors would prevent overpayment of expenses by California ratepayers. Therefore, the Commission should remove \$1,855,062.35 in double counted expenses and \$381,876.78 in erroneously averaged expenses. 67

<sup>67</sup> Duplicate expenses comprise of \$517,039.26 from Purchased Water, \$1,133,906.20 from Purchased Power, \$198,651 from Planning Studies, and \$5,722 from Amortization of Tank Painting.

## **Attachment 1: Qualifications of Witness**

#### QUALIFICATIONS AND PREPARED TESTIMONY OF Timothy Gee

- Q.1 Please state your name and address.
- A.1 My name is Timothy Gee.
- Q.2 By whom are you employed and what is your job title?
- A.2 I am employed by the Public Advocates Office at the California Public Utilities Commission. I am a Public Utilities Regulatory Analyst I.
  - Q.3 Please describe your educational and professional experience.
- A.3 I graduated from the School of Global Policy and Strategy at UC San Diego with a Master of Public Policy degree. I graduated with a specialization in Program Design and Evaluation. I also previously held federal positions at the Department of Health and Human Services Office of Inspector General and at the Department of State.
  - Q.4 What is your area of responsibility in this proceeding?
- A.4 My primary area of responsibility relates to Maintenance and Operations expenses, excluding labor. These include expenses related to purchased water, purchased power, chemicals, and various miscellaneous expense related to maintenance and operations.
  - Q.5 Does that complete your prepared testimony?
  - A.5 Yes, this completes my testimony.

# Attachment 2: Double-Counted Purchased Water Expenses

#### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Lakhjit S. Thind

Title: Rates & Regulatory Analyst
Address: California American Water
520 Capitol Mall, Suite 630

520 Capitol Mall, Suite 630 Sacramento, CA 95814

Cal Adv Request: A2207001 CAL ADV DATA REQUEST # TGE-07

Company Number: Cal ADV TGE 07 Q001

Date Received: September 6, 2022

Date Response Due: September 20, 2022

Subject Area: Purchased Water Fruitridge

#### **DATA REQUEST:**

- 1. Please refer to the Excel workbook titled "ALL\_CH04\_O&M\_RO," for the following questions.
  - a. In tab "Escalated Costs WS5" in the above referenced workbook, row 8553, columns O through S, show escalated expenses for Purchased Water in the Fruitridge district. These cells show projected amounts of \$482,630; \$501,452; \$516,997; \$532,611; and \$532,611 for the years 2022, 2023, 2024, 2025, and 2026 respectively. In the Excel workbook "ALL\_CH04\_O&M\_WP\_Purchased Water," in worksheet tab "SAC," cells H42, I42, J42, and K42 show Fruitridge projected purchased water expenses of \$1,047,774.70; \$1,047,774.70; \$1,047,774.70; \$1,047,774.70; Please answer the following:
  - i. Please explain why the Fruitridge purchased water expenses in workbook "ALL\_CH04\_O&M\_RO" are not the same as the Fruitridge purchased water expenses in workbook "ALL\_CH04\_O&M\_WP\_Purchased Water."
  - ii. If these expenses are not duplicative of each other, please explain why the Fruitridge purchased water expenses in workbook "ALL\_CH04\_O&M\_RO" are not calculated and included in workbook "ALL\_CH04\_O&M\_WP\_Purchased Water."
  - b. In tab "Y\_OM Data Rec WS1" in workbook "ALL\_CH04\_O&M\_RO", cell N8553 shows a 2021 recorded year expense of \$447,875 for Purchased Water in the Fruitridge district and is hardcoded.
  - Please provide the underlying for formula or calculation that supports the \$447,875 recorded amount.

## APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

- ii. Please provide in an Excel format the various expense items and their individual costs that make up the total amount of \$447,875.
- iii. Please also provide contracts, invoices, and other documentation that support \$447,875. Please also identify the specific page numbers in the contracts, invoices, and other documents that support the amount of \$447,875.

#### **CAL-AM'S RESPONSE**

- a. The Fruitridge expense in the "ALL\_CH04\_O&M\_RO" tab "Escalated Costs WS5" is a duplicate expense. In the 100-Day Update California American Water will remove the purchased water projected amounts of \$482,630; \$501,452; \$516,997; \$532,611; and \$532,611 for the years 2022, 2023, 2024, 2025, and 2026 respectively.
- b. See response below
  - \$447,875 is comprised of \$447,264.03 City of Sacramento invoices for calendar year 2021 and \$610.72 of accrued water purchases.
  - ii. See CAW Response Cal Adv TGE 07 Q001.b Attachment 1.
  - iii. See CAW Response Cal Adv TGE 07 Q001.b Attachment 2 Fruitridge Invoices. Pages numbers from invoices are referenced in CAW Response Cal Adv TGE 07 Q001b Attachment 1.

#### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Lakhjit S. Thind

Title: Rates & Regulatory Analyst Address: California American Water

520 Capitol Mall, Suite 630 Sacramento, CA 95814

Response Provided By: Joey Chen

Title: Senior Rates & Regulatory Analyst

Address: California American Water

520 Capital Mall, Suite 630 Sacramento, CA 95814

Cal Adv Request: A2207001 CAL ADV DATA REQUEST # TGE 14

Company Number: Cal ADV TGE 14 Q001
Date Received: November 16, 2022
Date Response Due: November 30, 2022
Subject Area: Purchased Power

#### **DATA REQUEST:**

The following questions pertain to NARUC Account #726 Purchased Power projected expenses for the years 2022 through 2026 as found in Excel workbooks "ALL\_CH04\_O&M\_RO" and "ALL\_CH04\_O&M\_WP\_Purchased Power."

- 1. Snapshot #1 below is a subset of expenses for NARUC Account #726 Purchased Power as found in tab "Escalated Costs WS5" from Excel workbook "ALL\_CH04\_O&M\_RO." For reference, these expenses can be found in "Escalated Costs WS5" and correspond to the Cal Am Districts Monterey-Toro, Monterey-Garrapata, Dunnigan WW, Geyserville, Meadowbrook, Rio Plaza, Fruitridge, and Hillview respectively. The projected amounts for years 2022 through 2026 for these districts do not appear in Cal Am's separate workbook for calculating purchased power expenses, specifically "ALL\_CH04\_O&M\_WP\_Purchased Power." Furthermore, these districts are also considered to be part of larger "rollup" districts, which include the Monterey, Los Angeles, and Sacramento districts, whose expenses are included in "ALL\_CH04\_O&M\_WP\_Purchased Power."
  - a. Please explain why these purchased power expenses for the Monterey-Toro, Monterey-Garrapata, Dunnigan WW, Geyserville, Meadowbrook, Rio Plaza, Fruitridge, and Hillview districts are not included in workpaper "ALL\_CH04\_O&M\_WP\_Purchased Power." If these expenses are not duplicative of expenses from "ALL\_CH04\_O&M\_WP\_Purchased Power," please explain their exclusion from "ALL\_CH04\_O&M\_WP\_Purchased Power." Please also explain why Cal Am chose to escalate these expenses

#### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

on a 5-year recorded average based on 2017 through 2021 recorded expenses.

#### Snapshot #1

				110			Pr	ojected Amoun	ts Escalated	
District #	District Name	SAP Account #	SAP Account # Description	NARUC#	Attrition Year	Estimated 2022	Estimated 2023	Test Year 2024	Escalation Year 2025	Attrition Year 2026
1548	Monterey - Toro	51510012	Purchased Power - Pumping	726	N	71,431.00	74,216.81	76,517.53	78,828.36	78,828.36
1549	Monterey - Garrapata	51510012	Purchased Power - Pumping	726	N	46,395.22	48,204.64	49,698.98	51,199.89	51,199.89
1562	Dunnigan WW	51510012	Purchased Power - Pumping	726	N	13,271.76	13,789.36	14,216.83	14,646.18	14,646.18
1564	Geyserville	51510012	Purchased Power - Pumping	726	N	19,597.15	20,361.44	20,992.65	21,626.63	21,626.63
1565	Meadowbrook	51510012	Purchased Power - Pumping	726	N	112,347.38	116,728.93	120,347.52	123,982.02	123,982.02
1557	Rio Plaza	51510012	Purchased Power - Pumping	726	N	35,254.23	36,629.15	37,764.65	38,905.14	38,905.14
1566	Fruitridge	51510012	Purchased Power - Pumping	726	N	301,157.99	312,903.16	322,603.15	332,345.77	332,345.77
1567	Hillview	51510012	Purchased Power - Pumping	726	N	459,074.63	476,978.54	491,764.88	506,616.18	506,616.18

#### CAL-AM'S RESPONSE

 Purchased power expenses for the Monterey-Toro, Monterey-Garrapata, Dunnigan WW, Geyserville, Meadowbrook, Rio Plaza, Fruitridge, and Hillview districts are duplicative of expenses from "ALL\_CH04\_O&M\_WP\_Purchased Power" file and were inadvertently included in the RO Model. The RO Model should be adjusted to remove year 2022-2026 forecasted purchase power expenses from "ALL\_CH04\_O&M\_RO", worksheet "ORA Adj to Escalated Costs WS8" in Rows 1838, 2192, 5378, 6086, 6440, 8210, 8564, and 8918 for Monterey-Toro, Monterey-Garrapata, Dunnigan WW, Geyserville, Meadowbrook, Rio Plaza, Fruitridge, and Hillview districts.

# Attachment 3: 2017-2021 Recorded Purchased Water Expenses and Purchased Water Rate Increase Calculations for Test Year 2024

## BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) for Authorization to Increase its Revenues for Water Service by \$55,771,300 or 18.71% in the year 2024, by \$19,565,300 or 5.50% in the year 2025, and by \$19,892,400 or 5.30% in the year 2026.

A.22-07-001 (Filed July 1, 2022)

## CALIFORNIA-AMERICAN WATER COMPANY'S RESPONSE TO PUBLIC ADVOCATES OFFICE'S DATA REQUEST TGI 01

Sarah E. Leeper Nicholas A. Subias Cathy Hongola-Baptista California-American Water Company 555 Montgomery Street, Suite 816 San Francisco, CA 94111 (415) 863-2960 sarah.leeper@amwater.com

Lori Anne Dolqueist Willis Hon Nossaman LLP 50 California Street 34<sup>th</sup> Floor San Francisco, CA 94111 (415) 398-3600 Idolqueist@nossamna.com

Attorneys for California-American Water Company

Dated: August 5, 2022

#### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Lakhjit S. Thind

Title: Rates & Regulatory Analyst

Address: California American Water

520 Capital Mall, Suite 630 Sacramento, CA 95814

ORA Request: A2207001 CAL ADV DATA REQUEST # TGI-01

Company Number: Cal ADV TGI 01 Q001

Date Received:

Date Response Due:

Subject Area:

July 22, 2022

August 5, 2022

Purchased Water

#### **DATA REQUEST:**

1. Please provide all missing recorded historical data from 2017 through 2021, for which said data exists for proposed years 2022 to 2026 and are unique to each district and represented in each worksheet in the "ALL\_CH04\_O&M\_WP\_Purchased Water" workpaper. These include the districts of Monterrey (Central), Ventura, San Diego, Sacramento, Larkfield, LA-San Marino (including East Pasadena), LA-Rio, LA-Duarte, Bellflower, Warring, and LA-Baldwin Hills. This data should include, but is not limited to, rates and fees, past percentages of purchased water, water master fees, and other purchased water costs unique to each district.

a. The requested data applies to the following worksheet tabs in the "ALL\_CH04\_O&M\_WP\_Purchased Water" workpaper: LACBH, WARR, LABELL, LACDU, RIO, LACSM, LKD, SAC, SDC, VEN, and CEN. For each worksheet tab, please provide missing data for columns C, D, E, F, and G, which represent recorded years 2017 through 2021. The requested data corresponds to equivalent data found in columns H, I, J, and K for forecast years 2022 to 2025 for each worksheet tab.

#### **CAL-AM'S RESPONSE**

Please refer to Cal Adv TGI 01 Q001 Attachment 1 for the required information. Attachment 1 does not incorporate information for Warring or Bellflower as these systems have not yet been acquired at the time of the Application filing. Further, recorded information for acquisitions acquired during the 5-year recorded period are incorporated based on when California American Water assumed operational control of the related systems.

LA BALDWIN HILLS		2017	Г	2018		2019		2020		2021
Purchased Water Rates - Purchased		2017	_	2010		2013	_	2020	_	2021
West Basin Municipal Water District (per AF)	\$	1,332.00	\$	1,354.00	\$	1,385.00	\$	1,405.00	\$	1,449.00
Burchasad Water Rates Burnand										
Purchased Water Rates - Pumped West Basin MWD Capacity/Reservation Charges (per month)	\$	2,035.00	\$	2,251.00	\$	1,980.00	\$	2,346.00	\$	3,786.00
West Basin MWD Monthly Water Service Charge(per month)	\$	1,340.00	\$	623.00	S	2,227.00	\$	6,030.00	\$	7,405.00
Central Basin Watermaster Adminstrative Body Service Fee	\$	3,839.59	\$	3,879.80	\$	3,770.92	\$	3,552.75	\$	3,117.25
Central Basin Assessment (per AF)	\$	0.50	\$	0.50	\$	0.50	\$	0.52	\$	0.53
Central Basin Membership Dues	\$	50.00	\$	50.00	\$	50.00	\$	50.00	\$	50.00
Water Replenishment District (per AF)	\$	318.00	\$	339.00	\$	365.00	\$	382.00	\$	394.00
LA DUARTE		2017	П	2018		2019		2020		2021
Purchased Water Rates - Pumped	_		_							
Main San Gabriel WaterMaster Administration Assessment Fee										
(per AF) Main San Gabriel WaterMaster RDA Fee (per AF)	\$	15.00 70.00	\$	15.00 105.00	\$	17.00 140.00	\$	17.00 175.00	\$	17.00 175.00
Main San Gabriel Watermaster RDA Fee (per AF)  Main San Gabriel Basin Watermaster In Lieu Fee (per AF)	\$	10.00	\$	105.00	\$	10.00	\$	8.00	\$	8.00
Replenishment Water Assessment (per AF)	\$	898.00	\$	934.00	\$	958.00	\$	980.00	\$	1,002.00
San Gabriel Valley Water Assoc Assessment (Annual)	\$	11,178.43	\$	14,922.27	\$	16,835.00	\$	16,081.72	\$	16,406.00
San Gabriel River Water Committee (monthly)	\$	2,927.85	\$	2,927.85	\$	2,927.85	\$	2,927.85	\$	2,927.85
City of Monrovia - 4" Meter Monthly Standby Fee (Monthly) San Gabriel Basin Water Quality Authority (Bi Annual)	\$	77.58 18,245.00	\$	459.27 18,245.00	\$	518.98 21.894.00	\$	557.90 21,894.00	\$	599.74 21,894.00
our Subject busin vitaes Quarky Authority (Di Aimau)	_	10,240.00	_	10,240.00	_	21,004.00	_	21,004.00		21,004.00
LA SAN MARINO		2017		2018		2019		2020		2021
Fixed Charges - Purchased										
MWD Capacity Charge (per month)	\$	4,866.67 2.851.78	\$	5,292.50 2,791.48	\$	5,375.00	\$	5,500.00	\$	6,687.50 2.892.00
MWD Readiness to Serve Charge (per month)	Þ	2,851.78	\$	2,791.48	2	2,315.96	Þ	2,973.79	\$	2,892.00
Fixed Charges - Pumped										
City of South Pasadena Meter Charges (3 meters) (Bi-Monthly)	\$	673.74	\$	1,018.92	\$	797.70	\$	1,631.27	\$	1,233.51
Raymond Basin Management Fee (Annual)	\$	45,558.00	\$	45,708.00	\$	45,708.00	\$	45,709.00	\$	68,675.00
Savanah Memorial Park Leased Rights (AF)	\$	782.10	\$	808.20	\$	862.20	\$	792.00	\$	812.00
San Gabriel Basin Water Quality Authority (Bi-Annual)	\$	39,843.50	\$	39,843.50	\$	47,812.20 16,835.00	\$	47,812.20	\$	47,812.20
San Gabriel Valley Water Assoc Assessment (Annual)	Þ	11,178.43	\$	14,922.27	\$	16,835.00	\$	16,081.72	\$	16,406.00
Volumetric Charges Rates - Purchased										
MWD - San Marino Tier 1 (per AF)	\$	979.00	\$	1,015.00	\$	1,050.00	\$	1,078.00	\$	1,104.00
Volume to Change Dates Damand										
Volumetric Charges Rates - Pumped Replenishment Water Assessment (per AF)	\$	898 00	s	934 00	s	958 00	s	980 00	\$	1 002 00
Replenishment Water Assessment (per AF)	\$	898.00 70.00	\$	934.00 105.00	\$	958.00 140.00	\$	980.00 175.00	\$	1,002.00 175.00
	*	898.00 70.00 10.00	\$ \$	934.00 105.00 10.00	\$ \$ \$	958.00 140.00 10.00	-	980.00 175.00 8.00	\$ \$	1,002.00 175.00 8.00
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF)	\$	70.00	\$	105.00	\$	140.00	\$	175.00	\$	175.00
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF)	\$	70.00 10.00 15.00	\$	105.00 10.00 15.00	\$	140.00 10.00 17.00	\$	175.00 8.00 17.00	\$	175.00 8.00 17.00
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per ARIO PLAZA	\$	70.00 10.00	\$	105.00 10.00	\$	140.00 10.00	\$	175.00 8.00	\$	175.00 8.00
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF)	\$	70.00 10.00 15.00	\$	105.00 10.00 15.00	\$	140.00 10.00 17.00	\$	175.00 8.00 17.00	\$	175.00 8.00 17.00
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza	\$	70.00 10.00 15.00	\$	105.00 10.00 15.00	\$ \$ \$	140.00 10.00 17.00	\$ \$	175.00 8.00 17.00	\$ \$	175.00 8.00 17.00 2021 20 14
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF)	\$	70.00 10.00 15.00	\$	105.00 10.00 15.00	\$ \$ \$ \$	140.00 10.00 17.00 2019 - 11 6	\$ \$ \$ \$	175.00 8.00 17.00 2020	\$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per ARIO PLAZA  Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF)	\$	70.00 10.00 15.00	\$	105.00 10.00 15.00	\$ \$ \$	140.00 10.00 17.00 2019	\$ \$ \$	175.00 8.00 17.00 2020	\$ \$ \$	175.00 8.00 17.00 2021 20 14
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF)	\$	70.00 10.00 15.00	\$	105.00 10.00 15.00 2018	\$ \$ \$ \$	140.00 10.00 17.00 2019 - 11 6 273	\$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273	\$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6 320
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per A RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water	\$	70.00 10.00 15.00	\$	105.00 10.00 15.00	\$ \$ \$ \$	140.00 10.00 17.00 2019 - 11 6	\$ \$ \$ \$	175.00 8.00 17.00 2020	\$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017	\$ \$ \$	105.00 10.00 15.00 2018	\$ \$ \$ \$ \$ \$	140.00 10.00 17.00 2019 - 11 6 273 2019	\$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 	\$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6 320 2021 1,374.10
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD Sonoma Rates	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017	\$ \$ \$	105.00 10.00 15.00 2018	\$ \$ \$ \$ \$ \$ \$ \$	140.00 10.00 17.00 2019 - 11 6 273	\$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273	\$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6 320
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00	\$ \$ \$	105.00 10.00 15.00 2018 2018	\$ \$ \$ \$ \$ \$	140.00 10.00 17.00 2019 	\$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 	\$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6 320 2021 1,374.10 180.00
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017	\$ \$ \$	105.00 10.00 15.00 2018	\$ \$ \$ \$ \$ \$	140.00 10.00 17.00 2019 - 11 6 273 2019	\$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 	\$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6 320 2021 1,374.10
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00	\$ \$ \$	105.00 10.00 15.00 2018 2018	\$\$\$\$	140.00 10.00 17.00 2019 	\$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 	\$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6 320 2021 1,374.10 180.00
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017	\$ \$ \$ \$ \$ \$ \$	105.00 10.00 15.00 2018 2018 1,201.27 180.00 2018	\$\$\$\$	140.00 10.00 17.00 2019 - 11 6 273 2019 1,258.55 180.00 2019 2,620	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273 2020 1,328.65 180.00 2020 7,578 501	\$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00  2021  20 14 6 320  2021  1,374.10 180.00  2021  10,127 501
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA  Extraction Rates - Rio Plaza Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Sustainability Fee (per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month) Placer County Meter Standby	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	105.00 10.00 15.00 2018 2018 1,201.27 180.00 2018 2,750 - 16	\$\$\$\$	140.00 10.00 17.00 2019 - 111 6 273 2019 1,258.55 180.00 2019 2,620 - 17	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273 2020 1,328.65 180.00 2020 7,578 501 19	\$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021  20 14 6 320  2021  1,374.10 180.00  2021  10,127 501 18
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017	\$ \$ \$ \$ \$ \$ \$	105.00 10.00 15.00 2018 2018 1,201.27 180.00 2018	\$\$\$\$	140.00 10.00 17.00 2019 - 11 6 273 2019 1,258.55 180.00 2019 2,620	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273 2020 1,328.65 180.00 2020 7,578 501	\$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00  2021  20 14 6 320  2021  1,374.10 180.00  2021  10,127 501
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA  Extraction Rates - Rio Plaza Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Sustainability Fee (per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month) Placer County Meter Standby	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	105.00 10.00 15.00 2018 2018 1,201.27 180.00 2018 2,750 - 16	\$\$\$\$	140.00 10.00 17.00 2019 - 111 6 273 2019 1,258.55 180.00 2019 2,620 - 17	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273 2020 1,328.65 180.00 2020 7,578 501 19	\$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021  20 14 6 320  2021  1,374.10 180.00  2021  10,127 501 18
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month) Placer County Meter Standby Placer County Renewal/Replacement CHG	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	105.00 10.00 15.00 2018 2018 1,201.27 180.00 2018 2,750 - 16	\$\$\$\$	140.00 10.00 17.00 2019 - 111 6 273 2019 1,258.55 180.00 2019 2,620 - 17	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273 2020 1,328.65 180.00 2020 7,578 501 19	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	175.00 8.00 17.00 2021  20 14 6 320  2021  1,374.10 180.00  2021  10,127 501 18
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA  Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD  Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO  Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month) Placer County Meter Standby Placer County Renewal/Replacement CHG  Purchased Water Variable Rates City of Sacramento - Arden, Rosemont, Suburban (per AF) City of Sacramento - Fruitridge (per AF)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487 1 14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	105.00 10.00 15.00 2018 2018 1,201.27 180.00 2018 2,750 	\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	140.00 10.00 17.00 2019 - 11 16 6273 2019 1,258.55 180.00 2019 2,620 - 17 14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273 2020 1,328.65 180.00 2020 7,578 501 19 15	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	175.00 8.00 17.00 2021  20 14 6 320  2021  1,374.10 180.00  2021  10,127 501 18 15 614 745
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA  Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Sustainability Fee (per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO  Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month) Placer County Meter Standby Placer County Renewal/Replacement CHG  Purchased Water Variable Rates City of Sacramento - Fruitridge (per AF) Sacramento - County Water Agency (Per AF)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487 1 14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	105.00 10.00 15.00 2018 2018 1,201.27 180.00 2018 2,750 - 16 13 553 - 515	\$\$\$\$ \$\$\$\$\$ \$\$\$\$\$	140.00 10.00 17.00 2019 - 11 6 273 2019 1,258.55 180.00 2019 2,620 - 17 14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273 2020 1,328.65 180.00 2020 7,578 501 19 15	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021  20 14 6 320 2021  1,374.10 180.00  2021  10,127 501 18 15 614 745 558
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month) Placer County Meter Standby Placer County Neter Standby Placer County Renewal/Replacement CHG  Purchased Water Variable Rates City of Sacramento - Arden, Rosemont, Suburban (per AF) City of Sacramento - Fruitridge (per AF) Sacramento County Water Agency (Per AF) Placer County Water Agency (Per AF)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487 1 14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2018 2018 2018 2018 1,201.27 180.00 2018 2,750 - 16 13 553 - 515 174	\$\$\$\$ \$\$\$\$\$ \$\$	140.00 10.00 17.00 2019 - 111 6 273 2019 1,258.55 180.00 2019 2,620 - 17 14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273 2020 1,328.65 180.00 2020 7,578 501 19 15 518 666 525 517	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6 320 2021 1,374.10 180.00 2021 10,127 501 18 15 614 745 558 179
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA  Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD  Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO  Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month) Placer County Meter Standby Placer County Renewal/Replacement CHG  Purchased Water Variable Rates City of Sacramento - Arden, Rosemont, Suburban (per AF) City of Sacramento - Arden, Rosemont, Suburban (per AF) City of Sacramento - Fruitridge (per AF) Sacramento County Water Agency (Per AF) Placer County Water Agency (Per AF) Placer County Water Agency (Per AF) Sac Suburban (Per AF)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487 1 14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	105.00 10.00 15.00 2018 2018 1,201.27 180.00 2018 2,750 - 16 13 553 - 515	\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	140.00 10.00 17.00 2019 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021  20 14 6 320 2021  1,374.10 180.00  2021  10,127 501 18 15 614 745 558
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster In Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month) Placer County Meter Standby Placer County Water Agency (Per AF) Sacramento - Fruitridge (per AF) Sacramento County Water Agency (Per AF) Placer County Water Agency (Per AF) Sac Suburban (Per AF) Sac Suburban (Per AF)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487 1 14 606 592 549 81	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2018 2018 2018 2018 1,201.27 180.00 2018 2,750 - 16 13 553 - 515 174	\$\$\$\$ \$\$\$\$\$ \$\$	140.00 10.00 17.00 2019 - 111 6 273 2019 1,258.55 180.00 2019 2,620 - 17 14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273 2020 1,328.65 180.00 2020 7,578 501 19 15 518 666 525 517	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6 320 2021 1,374.10 180.00 2021 10,127 501 18 15 614 745 558 179 115 256
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA  Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD  Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO  Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month) Placer County Meter Standby Placer County Meter Standby Placer County Meter Standby Placer County Meter Standby Placer County Meter Agency (Per AF) Sacramento - Fruitridge (per AF) Sacramento County Water Agency (Per AF) Placer County Water Agency (Per AF) Sac Suburban Water Delivery Charge (Per AF) SAN DIEGO	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487 1 14 606 592 549 81	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2018 2018 2018 2018 1,201.27 180.00 2018 2,750 - 16 13 553 - 515 174	\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	140.00 10.00 17.00 2019 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021  20 14 6 320  2021  1,374.10 180.00  2021  10,127 501 18 15  614 745 558 179 115
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA  Extraction Rates - Rio Plaza Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Sustainability Fee (per AF) United Water  LARKFIELD Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO  Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Furtiridge (per month) Placer County Meter Standby Placer County Meter Standby Placer County Meter Agency (Per AF) Sacramento - Furtiridge (per AF) Sacramento County Water Agency (Per AF) Sac Suburban (Per AF) Sac Suburban Water Delivery Charge (Per AF) SAN DIEGO San Diego Rates	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487 - 1 14 606 - 592 549 81 -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2018  2018  2018  2018  1,201.27 180.00  2018  2,750 - 16 13  553 - 515 174 81 - 2018	\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	140.00 10.00 17.00 2019 - 11 6 273 2019 1,258.55 180.00 2019 2,620 - 17 14 600 - 525 174 115 525 256	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 6 273 2020 1,328.65 180.00 2020 7,578 501 19 15 518 666 525 179 115 256	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021  20 14 6 320  2021  1,374.10 180.00  2021  10,127 501 18 15 614 745 558 179 115 256
Replenishment Water Assessment (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster RDA (per AF) Main San Gabriel WaterMaster Lieu Assessment (per AF) Main San Gabriel WaterMaster Administration Assessment (per AF) RIO PLAZA  Extraction Rates - Rio Plaza Fox Canyon - Reserve Free (per AF) Fox Canyon - Sustainability Fee (per AF) Fox Canyon - Extraction Charge(per AF) United Water  LARKFIELD  Sonoma Rates Rate Per AF Meter Charge  SACRAMENTO  Purchased Water Fix Rates City of Sacramento - Arden, Rosemont, Suburban (per month) City of Sacramento - Fruitridge (per month) Placer County Meter Standby Placer County Meter Standby Placer County Meter Standby Placer County Meter Standby Placer County Meter Agency (Per AF) Sacramento - Fruitridge (per AF) Sacramento County Water Agency (Per AF) Placer County Water Agency (Per AF) Sac Suburban Water Delivery Charge (Per AF) SAN DIEGO	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70.00 10.00 15.00 2017 2017 1,133.47 180.00 2017 487 1 14 606 592 549 81	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2018 2018 2018 2018 1,201.27 180.00 2018 2,750 - 16 13 553 - 515 174 81	\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	140.00 10.00 17.00 2019 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2020 - 14 6 273 2020 1,328.65 180.00 2020 7,578 501 19 15 518 666 525 525 179 115 256	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	175.00 8.00 17.00 2021 20 14 6 320 2021 1,374.10 180.00 2021 10,127 501 18 15 614 745 558 179 115 256

VENTURA	2017	2018		2019	2020	2021	
Purchased Water Variable Rates							
TOTAL TIER 1 RATE (per AF)	\$ 1,300	\$ 1,375	\$	1,423	\$ 1,472	\$ 1,507	
TOTAL TIER 2 RATE ( per AF)	\$ 1,394	\$ 1,461	\$	1,509	\$ 1,559	\$ 1,549	
Purchased Water Fix Rates							
Readiness to Servce (per month)	\$ 92,438	\$ 85,879	\$	85,162	\$ 83,628	\$ 85,357	
Capacity Reservation Charge (per month)	\$ 81,364	\$ 92,299	\$	84,040	\$ 76,066	\$ 89,066	
Total	\$ 173,802	\$ 178,178	\$	169,202	\$ 159,694	\$ 174,423	
MONTEREY (CENTRAL)	2017	2018		2019	2020	2021	
Monterey Rates Pure Water Monterey Rate Per AF	0	o	1	0	2442	2,808	

#### Calculation of Average Annual Percent Change By Expense

LACBH - LA Baldwin Hills			Rates	by Year			Ye	ear-to-Year	Percent Cha	nge in Rates		
												Avg Annual
Rates	2017	2018	2019	2020	2021	2022	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	Change
Baldwin Hills West Basin MWD (per												
AF)	\$ 1,332.00	\$ 1,354.00	\$ 1,385.00	\$ 1,405.00	\$ 1,449.00	\$ 1,488.00	1.65%	2.29%	1.44%	3.13%	2.69%	2.24%
Water Replenishment District (per												
AF)	318	339	365	382	394	394	6.60%	7.67%	4.66%	3.14%	0.00%	4.41%
West Basin MWD Monthly Water												
Service Charge(per month)	1340	623	2227	6030	7405	6565	-53.51%	257.46%	170.77%	22.80%	-11.34%	5.73%

LACBH - LA Baldwin Hills (these							
items include 2023 rates in				Rates by Ye	ar		
calculation)				-			
Rates	2017	2018	2019	2020	2021	2022	2023
West Basin MWD							
Capacity/Reservation Charges (per							
month)	2035	2251	1980	2346	3786	4194	3806.25
West Basin Municipal Water District							
(per AF)	1332	1354	1385	1405	1449	1500	1587

		Year-to-Year Percent Change in Rates									
Rates	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Avg Change				
West Basin MWD											
Capacity/Reservation Charges (per											
month)	10.61%	-12.04%	18.48%	61.38%	10.78%	-9.25%	13.33%				
West Basin Municipal Water District											
(per AF)	1.65%	2.29%	1.44%	3.13%	3.52%	5.80%	2.97%				

LACDU - LA Duarte	Rates by Year Year-to-Year Percent Change in Rates											
												Avg
												Annual
Rates	2017	2018	2019	2020	2021	2022	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	Change
LAC San Marino Replenishment	898	934	958	980	1002	1058	4.01%	2.57%	2.30%	2.24%	5.59%	3.34%
City of Monrovia - 4" Meter Monthly												
Standby Fee (Monthly)	77.58	459.27	518.98	557.9	599.74	599.74	492.00%	13.00%	7.50%	7.50%	0.00%	7.00%
San Gabriel Basin Water Quality												
Authority (Bi Annual)	18245	18245	21894	21894	21894	21894	0.00%	20.00%	0.00%	0.00%	0.00%	4.00%
Main San Gabriel WaterMaster												
Administration Assessment Fee (per												
AF)	15	15	17	17	17	17	0.00%	13.33%	0.00%	0.00%	0.00%	2.67%
Main San Gabriel WaterMaster RDA												
Fee (per AF)	70	105	140	175	175	175	50.00%	33.33%	25.00%	0.00%	0.00%	21.67%

LACSM - LA San Marino			Rates I	y Year			Y	ear-to-Year	Percent Cha	inge in Rates		
												Avg Annual
Rates	2017	2018	2019	2020	2021	2022	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	Change
Replenishment Water Assessment												
(per AF)	898	934	958	980	1002	1058	4.01%	2.57%	2.30%	2.24%	5.59%	3.34%
MWD Capacity Charge (per month)	4866.67	5292.5	5375	5500	6687.5	6687.5	8.75%	1.56%	2.33%	21.59%	0.00%	6.85%
MWD Readiness to Serve Charge												
(per month)	2851.78	2791.48	2315.96	2973.79	2892	4333	-2.11%	-17.03%	28.40%	-2.75%	49.83%	11.27%
City of South Pasadena Meter												
Charges (3 meters) (Bi-Monthly)	673.74	1018.92	797.701667	1631.27	1233.51	1304.58	51.23%	-21.71%	104.50%	-24.38%	5.76%	2.73%
Raymond Basin Management Fee												
(Annual)	45558	45708	45708	45709	68675	68675	0.33%	0.00%	0.00%	50.24%	0.00%	10.12%
Savanah Memorial Park Leased												
Rights (AF)	782.1	808.2	862.2	792	812	812	3.34%	6.68%	-8.14%	2.53%	0.00%	0.88%
San Gabriel Valley Water Assoc												
Assessment (Annual)	11178.43	14922.27	16835	16081.72	16406	16406	33.49%	12.82%	-4.47%	2.02%	0.00%	8.77%
LAC San Marino Tier 1	979	1015	1050	1078	1104	1104	3.68%	3.45%	2.67%	2.41%	0.00%	2.44%
Main San Gabriel WaterMaster												
Administration Assessment Fee (per												
AF)	15	15	17	17	17	17	0.00%	13.33%	0.00%	0.00%	0.00%	2.67%
Main San Gabriel WaterMaster RDA												
Fee (per AF)	70	105	140	175	175	175	50.00%	33.33%	25.00%	0.00%	0.00%	21.67%
San Gabriel Basin Water Quality												
Authority (Bi-Annual)	39843.5	39843.5	47812.2	47812.2	47812.2	56258.34	0.00%	20.00%	0.00%	0.00%	17.67%	7.53%

LACSM - LA San Marino (includes 2023 rate in calculation)	Rates by Year								
Rate	2017	2018	2019	2020	2021	2022	2023		
MWD Capacity Charge (per month)	4866.67	5292.5	5375	5500	6687.5	7421.67	6448.33		

		Year-to-Year Percent Change in Rates									
Rate	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Avg Change				
MWD Capacity Charge (per month)	8.75%	1.56%	2.33%	21.59%	10.98%	-13.11%	5.35%				

LKD - Larkfield			D - 4 1 37				¥7	V D	. Cl	Deter		
LKD - Larkileid		,	Rates by Yea	r			Year-to-	y ear Percen	t Change in	Rates		A
												Avg Annual
P-t	2017	2010	2010	2020	2021	2022	2017 2018	2010 2010	2019-2020	2020-2021	2021-2022	Change
Rates Larkfield Rate per AF	2017	2018 1201.27	2019	2020	2021 1374.1	1374.21	2017-2018					
Larkfield Rate per AF	1133.47	1201.27	1258.55	1328.65	13/4.1	13/4.21	3.98%	4.//%	3.57%	3.42%	0.01%	3.95%
SAC - Sacramento			Rates by Yea				Voor to 1	Vana Damana	t Change in	Datas		
SAC - Sacramento		,	Rates by Yea	r			rear-to-	rear rercei	T Change in	Rates		Avg
												Annual
Rates	2017	2018	2019	2020	2021	2022	2017-2018	2019 2010	2019-2020	2020-2021	2021-2022	Change
City of Sacramento - Arden.	2017	2016	2019	2020	2021	2022	2017-2016	2016-2019	2019-2020	2020-2021	2021-2022	Change
Rosemont, Suburban (per month)	487	2750	2620	7578	10127	10127	464.72%	-4.72%	189,25%	33,64%	0.00%	9.64%
Placer County Meter Standby	467	16	17	19	10127	20			6.47%		9.81%	6.22%
Placer County Renewal/Replacement	1	10	17	19	10	20	1000.9770	11.1770	0.4770	-2.3070	9.0170	0.2270
CHG	14	13	14	15	15	16	-7.86%	11.17%	6.48%	-2.57%	9.83%	3.41%
City of Sacramento - Arden,	14	13	14	13	13	10	-7.0070	11.1770	0.4670	-2.3770	9.0370	3.4170
Rosemont, Suburban (per AF)	606	553	600	518	614	614	-8.75%	8,41%	-13.62%	18.59%	0.00%	0.93%
City of Sacramento - Fruitridge (per	000	333	000	516	014	014	-0.7570	0.41/0	-13.0270	18.3970	0.0078	0.9370
AF)	0	0	0	666	745	745				11.97%	0.00%	5.99%
Sacramento County Water Agency	0		-	000	743	743				11.57770	0.0070	3.777
(Per AF)	592	515	525	525	558	570	-13.15%	2.00%	0.00%	6.39%	2.09%	-0.53%
Placer County Water Agency (Per	372	313	525	020	330	370	-13.1370	2.0070	0.0070	0.5570	2.0570	-0.557
AF)	549	174	174	179	179	187	-68.25%	0.00%	2.50%	0.00%	4.88%	1.84%
Sac Suburban (Per AF)	81	81	115	115	115	115		42.30%	0.00%		0.00%	8,46%
out sucurous (c et i ii )	0.1	0.1	110	110	110		0.0070	1215070	0.0070	0.0070	0.0070	011071
SDC - San Diego		]	Rates by Yea	r			Year-to-	Year Percen	t Change in	Rates		
									Ι			Avg
												Annual
Rates	2017	2018	2019	2020	2021	2022	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	Change
San Diego Rate per AF	\$ 1,881.79	\$ 1,955.84	\$ 1,977.35	\$ 1,977.35	\$ 1,977.35	\$ 2,003.48	3.94%	1.10%	0.00%	0.00%	1.32%	1.27%
CEN - Monterey (not utilized)		1	Rates by Yea	r			Year-to-	Year Percen	t Change in	Rates		
												Avg
												Annual
Rates	2017	2018	2019	2020	2021	2022	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	Change
Pure Water Monterey Rate Per AF				2442	2808	3486				14.99%	24.15%	19.57%
RIO PLAZA			Rates by Yea	r			Year-to-	Year Percen	t Change in	Rates		
												Avg
												Annual
Rates	2017	2018	2019	2020	2021		2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	Change
United Water			272.92	272.92	319.6	319.6	1	1	0.00%	17.10%	0.00%	5.70%

## Attachment 4: Direct Testimony of Anush Nagesh

Docket: : A.19-07-004 Exhibit Number : Cal PA -

Commissioner : Genevieve Shiroma Administrative Law Judge : Gerald F. Kelly Cal PA Witness : Anusha Nagesh





REPORT AND RECOMMENDATIONS ON OPERATIONS AND MAINTENANCE AND ADMINISTRATIVE AND GENERAL AND EXPENSES, LABOR EXPENSES, BALANCING AND MEMORANDUM ACCOUNTS AND SPECIAL REQUESTS#2, 3 AND 13

**Application 19-07-004** 

PUBLIC VERSION San Francisco, California February 14, 2020

	TOTAL <sup>7</sup>	\$98,115,228	\$105,840,109	+ \$7,418,881
Temove	expenses		\$773,070	ψ113,010
Remove	6% of CAW corporate	0	\$773,676	- \$773,676
Add	Leak Adjustments	0	\$1,440,767	+ \$1,440,767
Add	Conservation	0	\$1,315,524	+ \$1,315,524
	Customer Accounts Expenses			
774	CA Miscellaneous	\$1,440,900	\$1,183,972	- \$256,929
	Accounts <sup>6</sup>			
775	CA Uncollectible	\$1,277,452	\$1,269,674	- \$7,778

In addition to the recommended adjustments shown in Table 1-1 above, the

- 2 Commission should direct Cal Am to develop a systematic approach to identify
- 3 expenses to be removed from recorded financial data for ratemaking purposes
- 4 before its next General Rate Case ("GRC"). Cal Am's continued inability to
- 5 exclude from its proposed budget costs that are recovered elsewhere demonstrates
- 6 that its current efforts are inadequate. Adopting a more systematic approach for
- 7 identifying costs to exclude for ratemaking purposes will reduce the likelihood of
- 8 ratepayers paying multiple times for the same costs.

#### 9 C. DISCUSSION

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#### 1) NARUC Account #704: Source of Supply - Purchased Water

For TY 2021, Cal Am calculates total purchased water expenses by

multiplying either 2018 or 2019 water rates with total forecasted water production

<sup>&</sup>lt;sup>6</sup> Cal Am's 100-day update workpaper "ALL\_CH04\_O&M\_RO" under sheet titled "Summary of Costs - NARUC WS11" in row: 72.

Attachment 01: list all O&M and A&G accounts reviewed in this chapter, and details Cal Am's forecast, the Public Advocates Office's forecast and difference for each account. Refer to row titled: "TOTAL."

for each water wholesaler in all districts except Monterey, which utilizes a recorded five-year inflation adjusted average.<sup>8</sup>

3 Cal Am's TY 2021 purchased water forecast generally assumes no increases in water rates during the period between the time the Application was filed and the 4 5 test year. Cal Am's assumption is unreasonable because the most recent five years 6 (2014 - 2018) of recorded data show an average increase of 3.69% each year in water rates. Under-forecasting purchased water rates results in the illusion of a 7 8 smaller increase in customer rates in the GRC. However, customers later 9 experience, through surcharges, an increase in their bills above the amounts stated 10 on customer notices related to the general rate case.

11 For example, Cal Am tracks the difference between its authorized budget 12 and actual purchased water expense in its Modified Cost Balancing Account ("MCBA"). $\frac{10}{10}$  Amounts tracked in the MCBA and other balancing accounts are 13 generally recovered later as surcharges in addition to the rates authorized during a 14 15 GRC. Cal Am under-forecasting expenses it tracks in balancing accounts, such as 16 the MCBA, provides the Commission and customers with the false impression of a smaller proposed change in water rates. In reality, a lower-than-reasonable forecast 17 will produce a greater difference between the authorized and actual expenses. This 18 19 larger difference is recorded to the balancing account and appears as surcharges on 20 customer bills, while the illusion of lower "rates" is maintained.

<sup>8 &</sup>quot;water rates" refers to purchased water rate Cal Am pays to its water wholesalers. This is identified in Cal Am's workpaper "ALL\_CH04\_O&M\_WP\_Purchased Water" for TY 2021; see also Attachment 02: Cal Am's response to Data Request ("DR") ANU 001 Q005b, Cal Am provides corrected numbers for total purchased water for Monterey/central division. Cal Am changed forecast from \$1,159,958 to \$1,147,505 (decrease of \$12,453) in TY 2021 in workpaper "Cal PA ANU 01 Sec 01 Q005 Attachment 1."

 $<sup>\</sup>frac{9}{4}$  Attachment 03: Cal Am's response to DR ANU 01 Q.002.a in document titled "Cal PA ANU 01 Sec 01 Q002.A - OM Expenses." Any increase beyond 100% is excluded and considered as a one-time increase.

<sup>10</sup> Direct testimony of Jeffrey M Dana, p.7, lines 10-13.

To provide a more reasonable forecast of purchased water costs, Cal Am's water rates should be escalated by the average annual percentage increase in purchased water rates experienced over the past five years (2014 - 2018). 11

To increase transparency and reduce the number and size of likely 4 5 surcharges, Cal Am should produce reasonable forecasts for all expense items, 6 especially those items afforded the protection of being tracked in balancing 7 accounts. By under-forecasting expenses tracked in balancing accounts, Cal Am 8 masks impacts to customer bills. The Commission should adopt a reasonable 9 forecast of purchased water expenses for TY 2021. Increasing purchased water costs by the average annual percentage increase recorded over the past five years 10 results in a forecast of \$66,037,542 which is \$6,770,951 higher than Cal Am's 11 estimate. Any other differences in total purchased water expenses are the result of 12 13 different estimates of water demand and production, which are addressed separately by the Public Advocates Office witness, Suzie Rose. 12 14

#### 2) NARUC Account #726: Purchased Power

For TY 2021, Cal Am calculates purchased power expenses by multiplying 2018 power rates with forecasted power usage and water production for all districts. Similar to purchased water expenses, Cal Am tracks the difference between the authorized budget and actual purchased power expense in the MCBA, which is generally recovered as surcharges on customer bills. 14

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 $<sup>\</sup>frac{11}{2}$  Any year-on-year water rate increase of 100% and higher are excluded from the calculated five-year average. as being unlikely to be recurring and are considered as one-time increase.

<sup>12</sup> See Direct testimony of Suzie Rose.

<sup>13</sup> Cal Am's workpaper "ALL\_CH04\_O&M\_WP\_Purchased Power" for Cal Am's calculation of TY 2021 forecasted \$/kwh. "power rates" refers to dollar per kilowatt hour used ("\$/kwh").

<sup>14</sup> Direct testimony of Jeffrey M. Dana, p.7, lines 10 - 13.

2	inflation rates. $\frac{15}{1}$ However, recorded data shows an average annual increase of
3	6.42% in power rates, which is at least six times higher than the average inflation
4	rate of 1.05% over the five-years (2014 - 2018) of recorded data. $\frac{16}{2}$ Therefore, only
5	using inflation rates to arrive at a TY 2021 forecast would likely result in under-
6	forecasting purchased power expenses, recording a larger amount in Cal Am's
7	balancing accounts, and later assessing bigger surcharges on customers' bills.
8	To provide a more reasonable forecast of purchased power costs in TY
9	2021, Cal Am should escalate its 2018 power rates by the average annual
10	percentage increase in power rates experienced over the past five years (2014 -
11	2018). <del>17</del>
12	Forecasting more reasonable purchased power expenses will reduce
13	surcharges between general rate cases and narrow the gap between Cal Am's
14	noticed bill impacts and customers' actual bill impact. Under forecasting expense
15	items that have balancing accounts reduces the transparency of impacts to
16	customer's bills. The Commission should adopt a reasonable estimate for
17	purchased power expenses. Escalating power rates by the average annual

Cal Am's TY 2021 forecast escalates the 2018 power rates using simple

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percentage increase recorded in the last five years results in a purchased power expense forecast of \$7,807,943 for TY 2021 which is \$117,725 higher than Cal

Am's estimate. Any other differences in total purchased power expenses are the

<sup>15</sup> Cal Am's workpaper "ALL\_CHJ04\_O&M\_WP\_Purhcased Power" under sheet titled "Escalation of Cost Per KWH WS2" in Column J. "power rates" refers to dollar per kilowatt hour used or \$/kwh.

 $<sup>\</sup>frac{\textbf{16}}{\text{Cal Am's workpaper "ALL\_CH04\_O\&M\_RO" under sheet titled "WS5;" see also Cal Am's workpaper "ALL\_CH04\_O&M\_WP\_Escalation Factors" under sheet titled "Inflation Rates - ORA." Average inflation rate for recorded years 2014 - 2018 is 1.049%.}$ 

 $<sup>\</sup>frac{17}{2}$  Any power rate increase of more than 100% in any one year are excluded from calculated five-year average increase. as being unlikely to be recurring and are considered as one-time increase.

- 1 result of different estimates of water demand and production, which are addressed
- 2 separately by the Public Advocates Office's witness, Suzie Rose. 18

## 3 3) NARUC Account #798: Administrative and General ("AG") Outside Services

- 5 In TY 2021, Cal Am generally estimates outside services using a five-year
- 6 (2014 2018) inflation adjusted average of recorded data.  $\frac{19}{100}$  As detailed below,
- 7 some of the historical expenses that Cal Am utilized to build its forecast are no
- 8 longer required, unlikely to be incurred in this general rate case cycle, or
- 9 miscategorized. Cal Am should remove the following expenses when forecasting
- an expense budget for TY 2021.

12

#### 11 Table 1-2 - Comparison of Proposed Budget for Account #798

(a) Cal Am forecast <sup>20</sup>	(b) Public Advocates Office forecast <sup>21</sup>	Difference (b-a)	
\$2,532,822	\$2,315,875	- \$216,947	

#### a. Remove recorded costs for Los Padres Dam Long Term Study-

#### 13 (SAP Account: 53110016) -

- 14 The Commission previously authorized Cal Am to amortize in customer
- rates the cost of performing a one-time study pertaining to the Los Padres Dam.
- 16 The budget for this study was placed in customer rates as follows: "\$200,000 in
- 17 2015; \$350,000 in 2016; and \$450,000 in 2017."22

<sup>18</sup> See direct testimony of Suzie Rose.

<sup>19</sup> See direct testimony of Cameron Reed.

<sup>20</sup> Cal Am's workpaper "ALL\_CH04\_O&M\_RO" under sheet titled "Summary of Costs - NARUC WS11" cell: Q79.

<sup>21</sup> See direct testimony of Cameron Reed for discussion on SAMS software cost estimate of \$131,500 and Tank Inspection cost estimate of \$79,333 in TY 2021.

<sup>22</sup> D.15-04-007, Attachment A, pp. 207 - 208.

## Attachment 5: Jayne Parker Testimony from A.19-07-004

Docket: : A.19-07-004

Exhibit Number : Cal PA -

Commissioner : Genevieve Shiroma Administrative Law Judge : Gerald F. Kelly Cal PA Witness : Jayne Parker





## REPORT AND RECOMMENDATIONS ON RATES AND SURCHARGES

**Application 19-07-004** 

San Francisco, California February 14, 2020

#### A. INTRODUCTION

1 2

15

3 Cal Am's general rate case establishes customers' base rates for water service for a three-year period. Base rates include the monthly service charge that 4 5 is assessed for a customer's meter size and quantity rates that are assessed for the 6 volume of water consumed. Base rates are calculated to meet a utility's revenue 7 requirement and should provide the basic information necessary to evaluate the impacts of requests made by a utility in a general rate case on customers' bills .1 8 9 However, over the past decade more than one-fifth of Cal Am's average residential bill has consisted not of base rates, but rather surcharges that are the 10 result of alternative ratemaking mechanisms.<sup>2</sup> 11 12 As shown below in Figure 1, surcharges have averaged approximately 20% 13 of the total residential bill across all of Cal Am's districts over the past decade. In 14 Cal Am's Monterey District, surcharges have totaled as much as 53% of the

average residential bill in 2011, 2014 and 2016. $\frac{3}{2}$ 

<sup>&</sup>lt;sup>1</sup> A "revenue requirement" is the authorized budget that is established to cover both operating costs and provide the utility an opportunity to earn a reasonable rate of return on the property devoted to the business. *The Regulation of Public Utilities*, C.F. Phillips, Jr., 1993

<sup>&</sup>lt;sup>2</sup> Alternative Ratemaking Mechanisms (ARMs) or Alternative Revenue Programs (ARPs) "adjust future tariffs (usually as a surcharge applied to future billings) in response to past activities or completed events." *Revenue for Power and Utilities Companies*, KPMG, US GAAP, 2018

<sup>3</sup> See Attachment 2: Monterey District tariff pricing from 2008-2018.

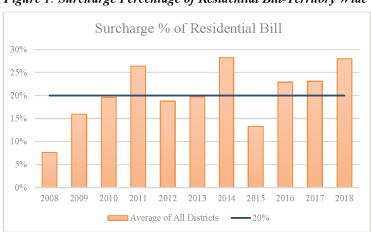


Figure 1: Surcharge Percentage of Residential Bill-Territory Wide

The full impact of surcharges over the three-year period that general rate cases establish rates is not known at the time of the general rate case because surcharges can be added to customer bills between general rate cases. For example, Cal Am's surcharges jumped from being 20% of the average residential bill in 2013 to being 28% in 2014 partly because of surcharges that were approved and added to customers' bills outside of Cal Am's general rate case.

Surcharges that are approved during a general rate case are not included in the overall revenue increases proposed by the utility. For example, Cal Am's current general rate case Application proposes to increase revenue by "\$25,999,900 or 10.60% in the year 2021, by \$9,752,500 or 3.59% in the year 2022, and by \$10,754,500 or 3.82% in the year 2023." However, none of these

<sup>&</sup>lt;sup>4</sup> Cal Am's proposed revenue increase percentage is calculated as the difference between total revenues at present rates and total revenues at proposed rates, excluding surcharges. See the Public Advocates Office's Executive Summary and Results of Operations Report.

<sup>&</sup>lt;sup>5</sup> Cal Am Final Application 2019 GRC, p. 1.

- 1 proposed revenue increases include the surcharges that Cal Am is requesting be
- 2 approved in the general rate case.  $\underline{6}$
- 3 As of May 31, 2019, Cal Am had an outstanding balance of approximately
- 4 \$199,000,000 in surcharge accounts, which are known as Memorandum and
- 5 Balancing Accounts in California. Tif Cal Am's outstanding balance of surcharge
- 6 accounts was collected over the three-year period that is addressed in this general
- 7 rate case (2021-2023), customer bills would increase by an additional 24.5% on
- 8 top of the base rate revenue that Cal Am proposes. 8
- 9 Surcharge accounts were first created to address unforeseen circumstances
- and, therefore, be temporary in nature. However, surcharges for Cal Am's
- 11 average residential customer have been remarkably persistent over the last ten
- 12 years. More concerning, the forecasting methodologies and Special Requests
- 13 proposed by Cal Am in the current general rate case appear deliberately designed
- 14 to obfuscate the impacts to customer bills by shifting an increasing amount of base
- 15 rates into surcharge accounts and applying a shareholder return to the account
- 16 balances. <u>10</u>

<sup>6</sup> Refer to the testimony of Mukunda Dawadi for the Public Advocates Office

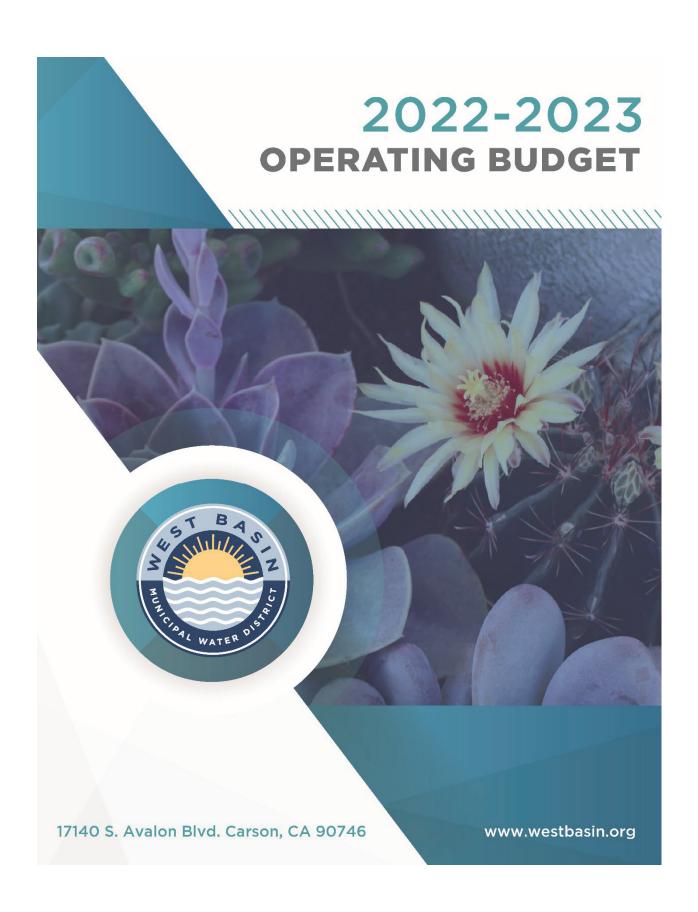
<sup>&</sup>lt;sup>7</sup> Direct Testimony of Jeffrey M. Dana, Attachment 1.

<sup>8 \$199,252,617</sup> from Cal PA ANU 16 Q005 Attachment 1/3 years = \$66,417,539. \$66,417,539 / \$271,241,000 (Sum of the Revenue Requirements for Cal Am's Northern, Southern, Central and Wastewater Districts. See the Public Advocates Office's Executive Summary and Results of Operations Report) = 24.5%.

<sup>&</sup>lt;sup>9</sup> Cal. P.U.C., Water Div. Res. W-4294 (Nov. 29, 2001).

 $<sup>\</sup>frac{10}{10}$  Refer to the testimony of witnesses, Anusha Nagesh and Mukunda Dawadi for the Public Advocates Office

## Attachment 6: West Basin Municipal Water District Financial Report



#### West Basin Municipal Water District

#### Reliability Service Charge

When determining the RSC, West Basin considers both the current year and the five-year forecast in striving for a target of 1.75 on the all-in debt service coverage. This process helps in avoiding large spikes in the RSC from year to year but may also provide an all-in debt service coverage in any one year to be lower or higher than the minimum. In FY's 2018-19, 2019-20 and 2020-21, the RSC did not increase while West Basin phased-in the Fixed Service Charge (FSC). With the full FSC in place, the RSC was increased by \$8/AF (and the effective rate for the in the FSC decreased \$8/AF) in FY 2021-22. However, the FY 2022-23 budget reflects the cost increases required to maintain service to our customers in order to provide a safe and reliable supply of high-quality water and thereby necessitates a \$12/AF increase in the RSC.

Rate Components	Today	Effective July 1, 2022	Effective January 1, 2023	Annual Rate Adjustment
		July - December	January - July	
MWD Imported Water Tier I Rate	\$1,143	\$1,143	\$1,209	\$66
MWD Readiness to Serve (RTS)	\$100	\$100	\$121	\$21
West Basin Reliability Service Charge (RSC)	\$245	\$257	\$257	\$12
Total West Basin Tier I Community Rate	\$1,488	\$1,500	\$1,587	\$99

#### Imported Retail Sales

Imported retail water sales vary based on hydrologic conditions, water demand and on the available water supply. As the chart below shows, consumer usage of imported water since the end of the last drought in FY 2016-17 has not returned to pre-drought levels. With the Governor's recent calling for steps to drive water conservation, West Basin is projecting sales to be at 101,740 AF, a drop of 2,215 AF from the previous fiscal year actual sales of 103,955 AF. Based on discussions with customer agency and their input regarding overall water management strategies and trends, and due to the uncertainty of what the State may do in response to the ongoing drought and, West Basin is budgeting for retail sales at 103,200 AF in FY 2022-23.

Although West Basin is not the supplier of groundwater, the amount of groundwater use in West Basin's service area can create a downward impact on its imported retail sales. The following table shows the rebound in groundwater use beginning in FY 2018-19 and continuing and projected through FY 2021-22. The rebound in groundwater use projected in FY 2022-23 has been incorporated in the budget for imported retail sales.



Policy & Resource Development programs.

The Fixed Service Charge will decrease from \$6,672,327 in FY 2021-22 to \$6,312,275 in FY 2022-23, effectively a \$2/AF reduction, beginning July 1, 2022. While determined on an annual basis, West Basin charges its customers on a monthly basis. Overall, this fixed service charge represents about 20% of the West Basin's own imported water revenues.

#### Fixed Service Charge FY 2022-23

Customer Agencies	3-Year Ave Deliveries (AF)	Annual Charge	Monthly Charge
California American Water Co.	1,375	\$78,775	\$6,565
California Water Service - Dominguez	23,147	1,326,117	110,510
California Water Service - Hawthorne	3,117	178,591	14,883
California Water Service - Hermosa Redondo	10,491	601,040	50,087
California Water Service - Palos Verdes	17,317	992,106	82,676
City of El Segundo	6,410	367,221	30,602
City of Inglewood	6,426	368,154	30,680
City of Lomita	1,872	107,260	8,938
City of Manhattan Beach	4,674	267,801	22,317
Golden State Water	22,798	1,306,130	108,844
L.A. Co. Water Works District No. 29	8,149	466,889	38,907
WRD - Dominguez Gap Barrier	4,402	252,191	21,016
TOTAL	110,179	\$6,312,275	\$526,025

#### West Basin Municipal Water District

#### Capacity Charge

MWD developed the Capacity Charge to recover its costs in providing distribution capacity use during peak summer demands. The aim of this charge is to encourage customer agencies to reduce peak day demands during the summer months (May 1 thru September 30) and shift usage to the winter months (October 1 thru April 30), which will result in a more efficient utilization of MWD's existing infrastructure and defers capacity expansion costs. As this is an MWD charge, West Basin passes-through this charge to its customers.

West Basin's combined cubic feet per second (cfs) peak amount from its customers is 253.0 for CY 2021 increased to 255.5 cfs for CY 2022 and increases slightly to 255.7 cfs for CY 2023 and is calculated on each customer's highest overall peak level during the past three (3) years.

West Basin models MWD's methodology to calculate its peak charges to its customer agencies by multiplying each purveyor's highest daily average usage (per cfs) for the past three summer periods by the Capacity Charge Rate. The timing of the rate change is structured to coincide with MWD and is calculated to collect the amount West Basin is to pay. West Basin is able to pass through a lower rate per cfs and establish a more equitable distribution of MWD's charge as the agency's highest peak may be different than the individual customer's highest peak.

West Basin will decrease its current Capacity Charge Rate from \$10,025/cfs to \$9,135/cfs on January 1, 2023, with anticipated revenues of \$2,448,604 during FY 2022-23 to pass through the higher MWD cost.



The tables below show the peak cfs for CY's 2022 and 2023 by customer agency.

#### Capacity Charge

Effective 1/1/22 to 12/31/22				
	Calendar Year			
West Basin Customers	2017	2018	2019	3-Year Peak
California American Water Co.	4.0	5.0	4.8	5.0
Cal Water - Dominguez	52.3	43.5	44.2	52.3
Cal Water - Hawthorne	6.7	6.2	6.4	6.7
Cal Water - Hermosa Redondo	21.0	19.2	19.7	21.0
Cal Water - Palos Verdes	39.3	40.4	44.8	44.8
LA County Waterworks No. 29	16.1	14.7	15.8	16.1
City of El Segundo	12.1	12.3	8.5	12.3
City of Inglewood	13.8	11.8	12.0	13.8
City of Lomita	3.2	3.5	3.8	3.8
City of Manhattan Beach	8.5	8.1	8.4	8.5
Golden State Water Co.	42.2	44.5	40.9	44.5
Water Replenishment District	26.8	26.0	12.8	26.8
			TOTAL	255.5

Effective 1/1/23 to 12/31/23				
West Basin Customers	2018	2019	2020	3-Year Peak
California American Water Co.	5.0	4.8	4.1	5.0
Cal Water - Dominguez	43.5	44.2	40.3	44.2
Cal Water - Hawthorne	6.2	6.4	6.6	6.6
Cal Water - Hermosa Redondo	19.2	19.7	16.5	19.7
Cal Water - Palos Verdes	40.4	44.8	38.9	44.8
LA County Waterworks No. 29	14.7	15.8	16.7	16.7
City of El Segundo	12.3	8.5	14.0	14.0
City of Inglewood	11.8	12.0	11.9	12.0
City of Lomita	3.5	3.8	3.4	3.8
City of Manhattan Beach	8.1	8.4	8.1	8.4
Golden State Water Co.	44.5	40.9	35.2	44.5
Water Replenishment District	26.0	12.8	36.1	36.1
			TOTAL	255.7

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## Attachment 7: San Diego County Water Authority News Release



#### Water Authority Adopts 2023 Rates and Charges

#### **JUNE 23, 2022**

## Strategic actions reduce water rate increases, maintaining affordability despite inflation

Faced with the same inflationary pressures that are pushing up prices for residents and businesses, the San Diego County Water Authority Board of Directors today adopted 2023 water rates using strategies to minimize increases for its 24 member agencies and their customers.

The rates and charges will increase by 3.7% for untreated water and 5.2% for treated water in calendar year 2023 for the Water Authority's member agencies. The increases – adopted after a public hearing – are attributable to historically high inflation, significant energy cost increases from SDG&E, and continued cost increases by the Metropolitan Water District of Southern California.

"The strategic steps taken to minimize rate increases in the face of rising costs reflects the Board's commitment to water affordability," said Water Authority Board



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withdrawals from the fund help avoid rate spikes, especially those driven by reduced water sales.

The Water Authority's commitment to affordability includes securing \$25 million from the State of California to pay water bills for San Diego County residents impacted by COVID-19; securing \$90 million over the past two years through advocacy efforts and distributing that money to member agencies; avoiding hundreds of millions of dollars in future costs on water deliveries; and maintaining strong credit ratings that reduce the cost of debt.

In 2023, the Water Authority will charge its 24 member agencies the equivalent to an all-in rate of \$1,579 per acre-foot for untreated water, or \$56 more per acre-foot than they currently pay. Charges would be \$1,929 per acre-foot for treated water, or \$96 more per acre-foot than in 2022. (Note: An acre-foot is about 325,900 gallons, enough to serve the annual needs of 2.5 typical four-person households in San Diego County.)

Actual figures will vary for each retail member agency, and each member agency will incorporate costs from the Water Authority into the retail rates it charges to residents, businesses, and institutions.

The Water Authority's overall rate increase is driven by multiple factors, including rising costs for its water supplies, increases to water treatment (driven by energy costs) and conserved water supplies (driven by inflation), and continued increases from MWD.

Each year, the Water Authority's rate proposal is developed in conjunction with an independent cost-of-service study to ensure rates and charges comply with state law, legal requirements, cost-of-service standards, and Board policies. For 2023, an additional consultant hired to perform a cost-of-service review again affirmed the Water Authority's process. Throughout the six-month rate setting process, the Water Authority worked closely with its member agencies to keep the proposed



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lower our debt."

The 2023 rate proposal ensures debt-coverage ratios that maintain the Water Authority's strong credit ratings and minimize the cost of borrowing money for construction projects, an approach that saves ratepayers money over the long run. The Water Authority has senior lien credit ratings of AAA from Standard & Poor's, AA+ from Fitch ratings and Aa2 from Moody's.

For more information about the Water Authority's adopted 2023 rates, go the June Board packet starting on page 65 at: https://www.sdcwa.org/wpcontent/uploads/2021/11/2022\_06\_23BoardPacketSEC.pdf

### **BACK TO ALL NEWS**

The San Diego County Water Authority sustains a \$240 billion regional economy and the quality of life for 3.3 million residents through a multidecade water supply diversification plan, major infrastructure investments and forward-thinking policies that promote fiscal and environmental responsibility. A public agency created in 1944, the Water Authority delivers wholesale water supplies to 24 retail water providers, including cities, special districts and a military base.

### **Media Contact Information**

**Ed Joyce** 

Phone: (949) 276-1675

Email: <u>Ejoyce@sdcwa.org</u>

# **Attachment 8: SDCWA June Board Packet Notice to the Public**



June 15, 2022

Attention: Administrative and Finance Committee

Adopt the Water Authority's Rates and Charges for Calendar Year 2023. (Action)

#### Purpose

To establish rates and charges sufficient to meet the Water Authority's revenue requirements in conformance with state law and board policies.

### Staff recommendations

- a. Conduct the Public Hearing;
- Adopt Ordinance No. 2022-\_\_ an ordinance of the Board of Directors of the San Diego County Water Authority setting rates and charges for the delivery and supply of water, use of facilities, and provision of services;
- Adopt Resolution No. 2022-\_\_ a resolution of the Board of Directors of the San Diego County Water Authority continuing the Standby Availability Charge;
- d. Adopt Ordinance No. 2022-\_\_ an ordinance of the Board of Directors of the San Diego County Water Authority amending and restating the System Capacity and Water Treatment Capacity Charges imposed by the Water Authority pursuant to Section 5.9 of the County Water Authority Act;
- e. Find the actions exempt from CEQA pursuant to Public Resources Code § 21080(b)(8) and authorize the General Manager to file a notice of exemption.

### Alternative

Direct staff to set a different time or date for the public hearing.

### Fiscal Impact

The proposed water rates and charges, in combination with reserves, property tax revenues, the System Capacity Charge, the Water Treatment Capacity Charge, the Infrastructure Access Charge (IAC), investment income, the Standby Availability Charge, and the Supply Reliability Charge (SRC), are expected to raise revenues sufficient to meet the Water Authority's revenue requirement, bond covenants, and other key fiscal policy goals. The recommended M&I All-In cost of water increase for CY 2023 is \$56/AF or 3.7% for untreated water and \$96/AF or 5.2% for treated water. These increases continue to be mitigated by a projected draw from the Rate Stabilization Fund (RSF) within the Board policy.

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### Executive Summary

- Treated Water Cost increasing from the CY 2022 All-In rate of \$1,833 to \$1,929 in CY 2023 rates, a \$96 or 5.2% increase.
- Untreated Water Cost increasing from the CY 2022 All-In rate of \$1,523 to \$1,584 in CY 2023, rates a \$56 or 3.7% increase.
- Rate Stabilization Fund: Forecasted \$14M use of reserves in FY '23 to mitigate rate increases.
- Infrastructure Access Charge: For CY 2023, staff recommends that the IAC be held flat at \$4.24 to lessen short-term volatility.

#### Background

At the May 26, 2022 Board meeting, staff provided a report on the proposed CY 2023 rates and charges. In that report, the recommended rates, affordability efforts, and key rate drivers were discussed. Identified rate and charge drivers included MWD's Treatment and Full-Service Supply Rate increases, historically high inflationary cost pressures on IID and desalinated supplies, and operational changes by member agencies leading to decreased efficiencies at the Twin Oaks Treatment Plant. A draft of Carollo's independent cost of service study, and an additional independent draft cost of service study from HDR were presented. Both studies independently affirmed the Water Authority's annual rates and charges process, noting that they aligned with all applicable industry standards and cost-of-service best practices. The Board memo associated with the report is provided as Attachment A.

#### Previous Board Actions

On May 26, 2022, the Board received the detailed staff report and Carollo's draft cost of service study recommending the proposed CY 2023 rates and charges as well as HDR's cost of service study. Resolution 2022-11 was adopted, setting the time and place for the public hearing on June 23, 2022, to receive comments on the proposed rates and charges.

### Discussion

The June 23, 2022 Administrative and Finance Committee meeting has been scheduled as the time, date, and place to receive public comments regarding proposed rates and charges. Information presented in the May 26, 2022 Board meeting is also available. In addition, upon the Board's May action, Carollo's Cost-of-Service Report and HDR's independent Peer Review were finalized and are provided as Attachments B and C, respectively.

The Water Authority continues to emphasize its significant and long-standing affordability efforts through effective cost controls and active debt management. Building on prior efforts, this year's notable cost containment efforts include successfully advocating for MWD to lower its costs (rates) and pursuing lower-cost energy sources for the Water Authority's energy intensive desalination operations in Carlsbad. Cost containment advocacy recently resulted in the Metropolitan Water District dropping their originally proposed rates from a 9% annual "overall" increase to 5%, saving San Diego ratepayers more than \$15 million over the next two years. The Water Authority continues to optimize its nearly \$2 billion debt portfolio to provide the lowest cost of capital. Recent debt optimization efforts have resulted in \$130 million dollars in net-present-value savings,

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Administrative and Finance Committee June 15, 2022 Page 3 of 3

and the Water Authority is currently pursuing further savings at the Claude "Bud" Lewis Carlsbad Desalination Plant through debt refunding.

The proposed actions are exempt from CEQA as provided by statute under Public Resources Code §21080(b)(8). This Statutory Exemption is stipulated for actions involving the establishment of water rates, tolls, fares, or other charges for the purpose of meeting operating expenses, including employee wages and benefits; purchasing or leasing supplies, equipment, or materials; meeting financial reserve needs and requirements; or obtaining funds for capital projects within existing service areas. The General Manager is therefore authorized to file a Notice of Exemption pursuant to Public Resources Code §21152(b) and §15061(d) of the State CEQA Guidelines (Title 14, Chapter 3, California Code of Regulations).

The Water Authority has complied with the procedural requirements for continuing the Standby Availability Charge and increasing its rates and charges for water and other services. After consideration of public comments at the Public Hearing on June 23, 2022, the staff recommends that the Board adopt the ordinance setting the water rates and charges for CY 2023.

Prepared by: David Gore, Senior Management Analyst Reviewed by: Pierce Rossum, Rate and Debt Manager

Lisa Marie Harris, Director of Finance/Treasurer

Approved by: Tish Berge, Assistant General Manager

Attachments:

Attachment A - May 18, 2022 Board Memo setting the public hearing for the proposed CY 2023 rates and charges

Attachment B - Carollo Engineers' Cost of Service Study dated June 2022

Attachment C – May 18, 2022 Supplemental Board Memo Peer Review of SDCWA's 2023 Rate Study

Attachment D - HDR's Cost-of-Service Study dated June 2022

Attachment E - Ordinance No. 2022-\_\_ an ordinance of the Board of Directors of the San Diego County Water Authority setting rates and charges for the delivery and supply of water, use of facilities, and provision of services

Attachment F - Resolution No. 2022-\_\_ a resolution of the Board of Directors of the San Diego County Water Authority continuing the Standby Availability Charge

Attachment G - Ordinance No. 2022-\_\_ an ordinance of the Board of Directors of the San Diego County Water Authority amending and restating the System Capacity and Water Treatment Capacity Charges imposed by the Water Authority pursuant to Section 5.9 of the County Water Authority Act

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# Attachment 9: City of San Diego Notice of Public Hearing



### **NOTICE OF PUBLIC HEARING**

# **Proposed Increase** to Water Rates

The City of San Diego is proposing changes that will affect your water bill.

### **Public Hearing Information**

A public hearing will be held on proposed maximum increases to water pass-through charges for calendar year 2023.

## The public hearing will be held Sept. 20, 2022, at 2 p.m.

The City Council will hear and consider oral testimony and written materials submitted regarding the proposed rate increases at the hearing. The City Council will have the authority to make adjustments to the proposed rate increases in response to oral testimony and written materials submitted for consideration. Only formal written protest will be considered under the City 's Proposition 218 protest tabulating procedures and must be received before the close of the public hearing either in person at the public hearing or via mail to City Clerk, 202 C St., MS 2P, San Diego, CA 92101.

### You have the right to protest the proposed rate increases.

Written protest must contain a statement of opposition to the rate increase, the property assessor parcel number or property address and the name and signature of the property owner or utility customer of record registering the protest. Only one protest will be counted for each parcel or address. Electronic protest (email, social media messages, etc.) will not qualify as written protest under state requirements. Per state law, the public hearing will be televised on City TV and simulcast on the City's website at sandiego.gov/citytv. More information about Council meeting access and public comment is available online at sandiego.gov/city-clerk/ officialdocs/council-agendas-minutes-results. At the close of the public hearing, the City Council will consider and may approve the rate increases. Oral comments at the public hearing will be considered by the City Council but will not qualify as formal protests unless accompanied by a written protest. If, by the close of the public hearing, written protests against the pass-through charges are not presented by a majority of property owners or tenants responsible for paying the utility bills, the City Council will be authorized to adopt a resolution to increase the pass-through charges. If adopted, the calendar year 2023 increases will become effective Jan. 1, 2023, and a public information campaign will commence to ensure customer awareness.

Pursuant to Government Code Section 53759, there is a 120-day statute of limitations for any judicial action or proceeding challenging any new, increased, or extended water and sewer fee or charge.



### **PROPOSED Water Pass-Through Rates**

San Diego relies heavily upon imported water from Northern California and the Colorado River. The City historically has purchased approximately 89% to 90% of 11s annual water needs from the San Diego County Water Authority (SDCWA), which in Itura purchases its water from the Metropolitan Water District of Southern California, Illstorically, SDCWA increases water rates annually. These increases are based on SDCWA costs for infrastructure, operations, maintenance and other costs required to obtain water on behalf of member agencies. SDCWA incorporates all its costs into its water charge which are passed through to member agencies, like the City of San Diego.

In June of each year, the SDCWA board approves wholesale water rate increases which will increase the City's water purchase costs commencing the following year on

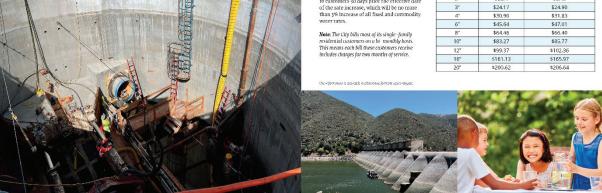
	Current and Maximum Water Monthly Service Charge						
Meter Size	Current Charge	3% Pass Through Increase					
5/8", 3/4"	\$27.09	S27.91					
1"	\$35.87	\$36.95					
1.5"	\$55.97	\$57.65					
2"	581.08	\$83.52					
3"	\$140.09	\$144.30					
4"	S224.22	\$230.95					
6"	\$432.65	\$445.63					
8"	5683.77	\$704.29					
10"	S977.57	\$1,006.90					
12"	\$1,813.79	\$1,868.21					
16"	\$3,153,50	\$3,248,11					





Current and Maximum Water Commodity Rates						
Customer Class		Current Charge	3% Pass Through Increase			
Single Family Residential		N-1				
Tier 1	\$/HCF)	\$5.415	\$5.578			
Tier 2	\$/HCF)	\$6,065	56.247			
Tier 3	\$/HCF)	\$8.664	58.924			
Tier 4	\$/HCF)	\$12,183	\$12,549			
Multi-Family Residential	\$/HCF)	\$6.553	56.750			
Commercial/Industrial/Outside City	\$/HCF)	\$6.394	\$6,586			
Irrigation	\$/HCF)	\$7.265	57.483			
Temporary Construction	\$/HCF)	\$7.388	s7.610			

Meter Size	Current Charge	3% Pass Through Increase
1"	\$4.03	\$4.15
1.5"	\$4.03	\$4.15
2"	\$6.24	\$6.43
3"	\$24.17	\$24.90
4"	\$30.90	\$31.83
6"	\$45.64	\$47.01
8"	\$64.46	\$66.40
10"	\$83.27	\$85.77
12"	\$99.37	\$102.36
16"	\$161.13	\$165,97
20"	5200.62	\$206.64





**Notice of Public Hearing** 

PRESORTED STANDARD U.S. POSTAGE PAID SAN DIEGO, CA PERMIT 134

DATE: Sept. 20, 2022

TIME: 2 p.m.

LOCATION: 202 C St San Diego, CA 92101

Council Chambers are open for in-person testimony. For more information, please visit: sandiego.gov/city-clerk/officialdocs/council-agendas-minutes-results.



This document is important to all customers of the City of San Diego and is also available in other languages on our website. Please visit sandiego.gov/ rate-increases

### **IMPORTANT INFORMATION ABOUT YOUR RIGHTS**

This notice is being provided to you by the City of San Diego Public Utilities Department pursuant to California Constitution Article XIIID (also known as "Proposition 218"). Under the terms of Proposition 218, the City is required to notify the property owners of record of proposed changes to property-related fees, such as water and wastewater service.

This serves as notice that the City Council will conduct a public hearing, at the time, date and location specified above, to consider recommended adjustments to the City's water service rates and charges. If approved, the proposed adjustments will first appear on bills beginning in January 2023. All members of the public are invited to attend the public hearing. Additionally, under California state law, all property owners and customers of record may submit a written protest to the proposed rate changes. Mailed protest must be received by Sept. 20, 2022. Only one protest per parcel is permitted. All written protests will be verified. You may also appear at the public hearing at the date and time specified above. More information is available online at: sandiego.gov/rate-increases.

Written protect must be mailed in an envelope or delivered to: City Clark, and C.St., MS all San Diogo, CA extent

written protest must be maned in an envelope of den	vereu to. City Clerk, 202 C St., WS 21, San Diego, CA 92101.
I	oppose the proposed rate increases.
Assessor's Parcel Number or Address:	
Signature:	

# Attachment 10: Seaside Watermaster and Sand City Corrections

## BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) for Authorization to Increase its Revenues for Water Service by \$55,771,300 or 18.71% in the year 2024, by \$19,565,300 or 5.50% in the year 2025, and by \$19,892,400 or 5.30% in the year 2026.

A.22-07-001 (Filed July 1, 2022)

### CALIFORNIA-AMERICAN WATER COMPANY'S RESPONSE TO PUBLIC ADVOCATES OFFICE'S DATA REQUEST TGE 04

Sarah E. Leeper Nicholas A. Subias Cathy Hongola-Baptista California-American Water Company 555 Montgomery Street, Suite 816 San Francisco, CA 94111 (415) 863-2960 sarah.leeper@amwater.com Lori Anne Dolqueist Willis Hon Nossaman LLP 50 California Street 34<sup>th</sup> Floor San Francisco, CA 94111 (415) 398-3600 Idolqueist@nossamna.com

Attorneys for California-American Water Company

Dated: September 7, 2022

### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Lakhjit S. Thind

Title: Rates & Regulatory Analyst
Address: California American Water
520 Capitol Mall, Suite 630

520 Capitol Mall, Suite 630 Sacramento, CA 95814

Cal Adv Request: A2207001 CAL ADV DATA REQUEST # TGE-04

Company Number: Cal ADV TGE 04 Q001

Date Received: August 23, 2022

Date Response Due: September 7, 2022

Subject Area: Purchased Water

#### **DATA REQUEST:**

1. For the following questions, please refer to Excel document "Cal Adv TGI 01 Q001 Attachment 1" submitted by California American Water and sent by email from Demetrio Marquez dated August 5, 2022. This document was submitted by California American Water as part of its response to data request titled "A2207001 - Cal Advocates Data Request TGI-01 (Purchased Water)" sent to California American Water on July 22, 2022.

- a. In the worksheet tab titled "CEN" in Excel workbook "Cal Adv TGI 01 Q001 Attachment 1," rows 22 through 24 for columns C through G are empty. These rows and columns pertain to the costs and fees associated with Sand City, Seaside Basin Water Master, and Marina Coast Water District Wheeling Fee. Please provide this information as originally requested in "A2207001 Cal Advocates Data Request TGI-01 (Purchased Water)." If no data exists, please explain why.
- b. In the worksheet tab titled "CEN" in Excel workbook "Cal Adv TGI 01 Q001 Attachment 1," the cells in Row 12, Columns C through G, show water in acrefeet for "Pure Water Monterey Recovery" for recorded years 2017 through 2021. However, these numbers are not projected in the worksheet tab titled "CEN" in workpaper "ALL\_CH04\_O&M\_WP\_Purchased Water" for the projected years 2022 through 2025. Please explain why recorded year data exists for 2017 through 2021 but no similar data is projected for years 2022 through 2025. If Cal Am does not forecast future recorded usage for Pure Water Monterey Recovery as referenced above, please explain why, with an explanation of what changed (or will change) from what occurred during recorded years 2017 to 2021.

### <u>APPLICATION NO. A.22-07-001</u> DATA REQUEST RESPONSE

c. In the worksheet tab titled "CEN" in Excel workbook "Cal Adv TGI 01 Q001 Attachment 1," the cells found in Row 16, Columns C through G, show water in acre-feet for "Satellite Systems" for recorded years 2017 through 2021. However, these numbers are not projected in the worksheet tab titled "CEN" in workpaper "ALL\_CH04\_O&M\_WP\_Purchased Water," for the projected years 2022 through 2025. Please explain why recorded year data exists for 2017 through 2021 but no similar data is projected for years 2022 through 2025. If Cal Am does not forecast future recorded usage for Satellite Systems as referenced above, please explain why, with an explanation of what changed (or will change) from what occurred during recorded years 2017 to 2021.

### **CAL-AM'S RESPONSE**

- a. Please see attachment CAW Response Cal Adv TGE 04 Q001.a Attachment 1. Note that 2017-2021 data is not inflation adjusted. In reviewing the backup calculation, California American Water discovered certain Seaside Basin and property tax invoices were inadvertently transposed between the years in the forecast calculation. The tax year in the original invoice sent by the County of Monterey was different than the final tax bill. California American Water included a corrected version of the calculation in CAW Response Cal Adv TGE 04 Q002.b Attachment 1, and this correction will be reflected in the company's 100-Day update filing.
- b. The purpose of the worksheet as provided in the Application RO Model is to provide estimated purchased water costs based on forecasted demand and current purchased water rates. The "Pure Water Monterey Recovery" terminology was provided in the response to TGI 01 Q001 to provide more detail on the source of the purchased water. The projected purchases from the Pure Water Monterey facility are based on the projected company allotment as defined in the Water Purchase Agreement for Pure Water Monterey Project<sup>1</sup>. The Pure Water Monterey facility came online in 2020 and the effective company allotment has fluctuated since that time. Information provided in the response to TGI 01 Q001 reflects recorded extraction.
- c. Central Satellite systems do not utilize purchased water sources (consisting of Pure Water Monterey and Sand City) so it was not necessary to separately

<sup>&</sup>lt;sup>1</sup> Water Purchase Agreement for Pure Water Monterey Project approved in Decision 16-09-021 and current effective company allotment as approved via Advice Letter 1375

### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

forecast related production. This information was provided in response to TGI 01 for informational purposes only.

### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Lakhjit S. Thind

Title: Rates & Regulatory Analyst
Address: California American Water

520 Capitol Mall, Suite 630 Sacramento, CA 95814

Cal Adv Request: A2207001 CAL ADV DATA REQUEST # TGE-04

Company Number: Cal ADV TGE 04 Q002.a

Date Received: August 23, 2022

Date Response Due: September 7, 2022

Subject Area: Purchased Water

### **DATA REQUEST:**

2. Please refer to Excel workpaper titled "ALL\_CH04\_O&M\_WP\_Purchased Water," worksheet tab "CEN" for the following questions.

a. The cells found in Rows 11 through 14, Columns H through K, are hardcoded numbers. Please provide the specific underlying formulas or calculations that support these hardcoded numbers.

### **CAL-AM'S RESPONSE**

'Seaside Basin Native Water (excluding PWM)' 1479 AFY (row 11) is the 1474 Seaside Groundwater Basin allocation to California American Water, along with an additional 5 AFY as part a wheeling agreement.

**'Carmel River' 3,300 AFY (row 12)** is the 3,376 AFY of California American Water permitted water rights with a reduction of 76 AFY to account for operational buffer needed to ensure limit is not exceeded.

**'Sand City' 200 AFY (row 13)** is the approximate average historic annual production from the plant. This amount is anticipated to increase in 2024 to 250 AFY, based on an estimated 50 AFY improvement when a new brackish intake well is built and in service.

**'Total Purchased Water Rights AF'** is the anticipated amount of purchased water from Monterey One Water Pure Water Monterey Project that is extracted and delivered to our customers.

**'Seaside Basin ASR if available/deficit'** is the anticipated remaining supply needs pumped from Seaside Basin to meet demand after using the other available sources of supply.

### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Lakhjit S. Thind

Title: Rates & Regulatory Analyst
Address: California American Water

520 Capitol Mall, Suite 630 Sacramento, CA 95814

Response Provided By: Joey Chen

Title: Senior Rates & Regulatory Analyst

Address: California American Water 520 Capitol Mall, Suite 630

Sacramento, CA 95814

Cal Adv Request: A2207001 CAL ADV DATA REQUEST # TGE-04

Company Number: Cal ADV TGE 04 Q002.b-g

Date Received: August 23, 2022

Date Response Due: September 7, 2022

Subject Area: Purchased Water

### **DATA REQUEST:**

- 2. Please refer to Excel workpaper titled "ALL\_CH04\_O&M\_WP\_Purchased Water," worksheet tab "CEN" for the following questions.
  - b. The cells found in Rows 19 through 23, Columns H through K, are hardcoded numbers. Please provide the specific underlying formulas or calculations that support these hardcoded numbers.
  - c. Cell H21 shows an expense of \$946,204.26 for "Sand City" and is hardcoded. Please provide the specific underlying formula or calculation that supports this expense of \$946,204.26. Please also provide all invoices and other documentation that support this expense.
  - d. Cells I21, J21, and K21 shows the expense amounts for "Sand City" as \$966,933.81, \$984,053.76, and \$1,001,248.92 respectively. Please provide the specific formulas or calculations that support each of the following escalation calculations:
    - i. The 2022 expense of \$946,204.26 to the 2023 expense of \$966,933.81.
    - ii. The 2023 expense of \$966,933.81 to the 2024 expense of \$984,053.76.
    - i. The 2024 expense of \$984,053.76 to the 2025 expense of \$1,001,248.92.
  - e. Cell H22 shows an expense of \$301,922.96 for "Seaside Basin Water Master" and is hardcoded. Please provide the specific underlying formula or calculation

### <u>APPLICATION NO. A.22-07-001</u> DATA REQUEST RESPONSE

- that supports this expense of \$301,922.96. Please also provide all invoices and other documentation that support this expense.
- f. Cells I22, J22, and K22 shows the expense amounts for "Seaside Basin Water Master" as \$313,697.96, \$323,422.59, and \$333,189.96 respectively. Please provide the specific formulas or calculations that support each of the following escalation calculations:
  - i. The 2022 expense of \$301,922.96 to the 2023 expense of \$313,697.96.
  - ii. The 2023 expense of \$313,697.96 to the 2024 expense of \$323,422.59.
  - iii. The 2024 expense of \$323,422.59 to the 2025 expense of \$333,189.96.
- g. Cell H23 shows an expense of \$24,000.00 for "Marina Coast Water District Wheeling Fee" and is hardcoded. Please provide the specific underlying formula or calculation that supports this expense of \$24,000.00. Please also provide all invoices and other documentation that support this expense.

### **CAL-AM'S RESPONSE**

- b. Please refer to California American Water's attachment CAW Response Cal Adv TGE 04 Q002.b Attachment 1. In reviewing the backup calculation, California American Water discovered that some of the Seaside Basin and property tax invoices were inadvertently transposed between the years in the forecast calculation. The tax year in the original invoice sent by the County of Monterey was different than the final tax bill. California American Water included a corrected version of the calculation in CAW Response Cal Adv TGE 04 Q002.b Attachment 1, and this correction will be reflected in the company's 100-Day update filing.
- c. California American Water objects to this request as overbroad and unduly burdensome. Subject to and without waiving the foregoing objections, California American Water responds as follows. Please refer to California American Water's attachment CAW Response Cal Adv TGE 04 Q002.b Attachment 1 for the calculation. The calculation utilizes 5 years of historical recorded data. There are over 1,000 recorded transactions, retrieving all these invoices would be unduly burdensome. As a compromise, California American Water is providing the historical transaction detail in attachment CAW Response Cal Adv TGE 04 Q002.b Attachment 1. Cal Advocates can review these transaction details and identify specific invoices to request for production.
- d. Please refer to California American Water's attachment CAW Response Cal Adv TGE 04 Q002.b Attachment 1.

### CALIFORNIA AMERICAN WATER A2207001 DR TGE-04

					ORIGINA	AL.					
Sand City	2017	2018	2019	2020	2021	5 Yr Average	2022	2023	2024	2025	2026
Escalation Factor	1.1997	1.1556	1.1371	1.1094	1.0000		1.0776	1.039	1.031	1.0302	1.0302
Chemicals	24,467	8,971	15,209	29,040	21,286	19,795					
Maintenance	211.520	375.608	102.554	119.476	137,525	189,337					
Permit Fee	4,699	5,145	5,907		12,818	5,714					
Property Tax	71.509	73,626	77.285	75.960	77,533	75,182					
SCADA	613	613	613	613	616	613					
Utilities	167.335	149,150	106,795	165,113	148,421	147,363					
Total	480,143	613,112	308,362	390,203	398,199	438,004					
Escalated Total	576,027	708,486	350,649	432,891	396,199	493,250	531,526	552,256	569,376	586,571	604,28
Annualized Lease (Fixed)	414,677	414,677	414,677	414,677	414,677	414,677	414,677	414,677	414,677	414,677	414,67
Total Sand City	894,820	1,027,789	723,039	804.880	812,876	852,681					
Total Sand City Escalated	990.704	1,123,163	765.326	847,569	812,876	907,928	946.204	966,933	984.053	1.001,248	1.018.96
Total Salid City Estalated	330,704	1,125,105	703,320	017,000	612,670	507,320	540,204	500,555	964,033	1,001,240	1,010,50.
Seaside Basin Watermaster	309,142	208,182	161,211	251,660	326,951	251,429					
Seaside Basin Watermaster											
(Escalated to 2022 \$)	370,877	240,566	183,318	279,192	326,951	280,181	301,923	313,698	323,423	333,190	343,25
Marina Coast Water District											
Wheeling Fee	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,00
Total Monterey Purchased											
Water Line	1.385.582	1.387,729	972,645	1.150.760	1.163.827	1,212,109	1,272,127	1.304.631	1.331.476	1,358,438	1,386,21

### CORRECTED

					CONNEC	ILD					
Sand City	2017	2018	2019	2020	2021	5 Yr Average	2022	2023	2024	2025	2026
Escalation Factor	1.1997	1.1556	1.1371	1.1094	1.0000		1.0776	1.039	1.031	1.0302	1.0302
Chemicals	24,467	8,971	15,209	29,040	21,286	19,795					
Maintenance	211.520	375.608	102,554	119,476	137,525	189,337					
				119,476							
Permit Fee	4,699	5,145	5,907		12,818	5,714					
Property Tax	70,226	71,509	77,285	80,559	75,960	75,108					
SCADA	613	613	613	613	616	613					
Utilities	167,335	149,150	106,795	165,113	148,421	147,363					
Total	478,860	610,995	308,362	394,802	396,626	437,929					
Escalated Total	574,487	706,040	350,649	437,993	396,626	493,159	531,428	552,154	569,271	586,463	604,174
Annualized Lease (Fixed)	414,677	414,677	414,677	414,677	414,677	414,677	414,677	414,677	414,677	414,677	414,677
Total Sand City	893,537	1.025.673	723.039	809,479	811,304	852,606					
Total Sand City Escalated	989,165	1,120,717	765,326	852,670	811,304	907,836	946,105	966,831	983,948	1,001,140	1,018,851
Seaside Basin Watermaster	134,160	208,182	161,211	201,500	251,660	191,343					
Seaside Basin Watermaster											
(Escalated to 2022 \$)	160,952	240,566	183,318	223,544	251,660	212,008	228,460	237,370	244,728	252,119	259,733
Marina Coast Water District						· .	'			,	
Wheeling Fee	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24.000
Total Monterey Purchased	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	,		.,			.,	.,	.,	-,
Water Line	1.174.116	1.385.283	972.645	1.100.214	1.086.964	1,143,844	1.198.565	1,228,201	1,252,676	1,277,259	1,302,584

# Attachment 11: Double-Counted Purchased Power Expenses

### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Lakhjit S. Thind

Title: Rates & Regulatory Analyst
Address: California American Water

520 Capitol Mall, Suite 630 Sacramento, CA 95814

Response Provided By: Joey Chen

Title: Senior Rates & Regulatory Analyst

Address: California American Water

520 Capital Mall, Suite 630 Sacramento, CA 95814

Cal Adv Request: A2207001 CAL ADV DATA REQUEST # TGE 14

Company Number: Cal ADV TGE 14 Q001
Date Received: November 16, 2022
Date Response Due: November 30, 2022
Subject Area: Purchased Power

### **DATA REQUEST:**

The following questions pertain to NARUC Account #726 Purchased Power projected expenses for the years 2022 through 2026 as found in Excel workbooks "ALL\_CH04\_O&M\_RO" and "ALL\_CH04\_O&M\_WP\_Purchased Power."

- 1. Snapshot #1 below is a subset of expenses for NARUC Account #726 Purchased Power as found in tab "Escalated Costs WS5" from Excel workbook "ALL\_CH04\_O&M\_RO." For reference, these expenses can be found in "Escalated Costs WS5" and correspond to the Cal Am Districts Monterey-Toro, Monterey-Garrapata, Dunnigan WW, Geyserville, Meadowbrook, Rio Plaza, Fruitridge, and Hillview respectively. The projected amounts for years 2022 through 2026 for these districts do not appear in Cal Am's separate workbook for calculating purchased power expenses, specifically "ALL\_CH04\_O&M\_WP\_Purchased Power." Furthermore, these districts are also considered to be part of larger "rollup" districts, which include the Monterey, Los Angeles, and Sacramento districts, whose expenses are included in "ALL\_CH04\_O&M\_WP\_Purchased Power."
  - a. Please explain why these purchased power expenses for the Monterey-Toro, Monterey-Garrapata, Dunnigan WW, Geyserville, Meadowbrook, Rio Plaza, Fruitridge, and Hillview districts are not included in workpaper "ALL\_CH04\_O&M\_WP\_Purchased Power." If these expenses are not duplicative of expenses from "ALL\_CH04\_O&M\_WP\_Purchased Power," please explain their exclusion from "ALL\_CH04\_O&M\_WP\_Purchased Power." Please also explain why Cal Am chose to escalate these expenses

### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

on a 5-year recorded average based on 2017 through 2021 recorded expenses.

### Snapshot #1

				110		Projected Amounts Escalated				
District #	District Name	SAP Account #	SAP Account # Description	NARUC#	Attrition Year	Estimated 2022	Estimated 2023	Test Year 2024	Escalation Year 2025	Attrition Year 2026
1548	Monterey - Toro	51510012	Purchased Power - Pumping	726	N	71,431.00	74,216.81	76,517.53	78,828.36	78,828.36
1549	Monterey - Garrapata	51510012	Purchased Power - Pumping	726	N	46,395.22	48,204.64	49,698.98	51,199.89	51,199.89
1562	Dunnigan WW	51510012	Purchased Power - Pumping	726	N	13,271.76	13,789.36	14,216.83	14,646.18	14,646.18
1564	Geyserville	51510012	Purchased Power - Pumping	726	N	19,597.15	20,361.44	20,992.65	21,626.63	21,626.63
1565	Meadowbrook	51510012	Purchased Power - Pumping	726	N	112,347.38	116,728.93	120,347.52	123,982.02	123,982.02
1557	Rio Plaza	51510012	Purchased Power - Pumping	726	N	35,254.23	36,629.15	37,764.65	38,905.14	38,905.14
1566	Fruitridge	51510012	Purchased Power - Pumping	726	N	301,157.99	312,903.16	322,603.15	332,345.77	332,345.77
1567	Hillview	51510012	Purchased Power - Pumping	726	N	459,074.63	476,978.54	491,764.88	506,616.18	506,616.18

### CAL-AM'S RESPONSE

 Purchased power expenses for the Monterey-Toro, Monterey-Garrapata, Dunnigan WW, Geyserville, Meadowbrook, Rio Plaza, Fruitridge, and Hillview districts are duplicative of expenses from "ALL\_CH04\_O&M\_WP\_Purchased Power" file and were inadvertently included in the RO Model. The RO Model should be adjusted to remove year 2022-2026 forecasted purchase power expenses from "ALL\_CH04\_O&M\_RO", worksheet "ORA Adj to Escalated Costs WS8" in Rows 1838, 2192, 5378, 6086, 6440, 8210, 8564, and 8918 for Monterey-Toro, Monterey-Garrapata, Dunnigan WW, Geyserville, Meadowbrook, Rio Plaza, Fruitridge, and Hillview districts.

## Attachment 12: Purchased Power 2017-2021 Recorded Year Rate Increases

<b>Total Purchase</b>	d Power Costs by	y Recorded Year	•	
2017	2018	2019	2020	2021
\$6,837,275.62	\$6,801,065.08	\$6,934,075.80	\$8,027,545.29	\$9,182,277.78

Total Kilowatt	Hours (KWH) k	y Recorded Yea	r	
2017	2018	2019	2020	2021
45,632,462.65	45,020,900.63	43,439,209.33	46,395,066.99	49,107,157.39

\$/KWH b	y Year*			
2017	2018	2019	2020	2021
0.149834	0.151065	0.159627	0.173026	0.186985

Annual Per	centage Inc	rease**	
2017-2018	2018-2019	2019-2020	2020-2021
0.82%	5.67%	8.39%	8.07%

Average of Annual Percentage Increase***
5.74%

<sup>\*</sup>Cost per kilowatt hour (\$/KWH) is calculated by dividing total purchased power cost by the total kilowatt hours for each recorded year. Cost and kilowatt hours are based on Cal Am wide expenses across all districts.

<sup>\*\*</sup> Annual Percentage Increase is the percent year to year change in KWH. For example, 2017-2018 is calculated by taking the difference between the 2018 and 2017 KWH figures and dividing by the 2017 KWH.

\*\*\*Average of Annual Percentage Increase is the average of the percent year to year change in \$/KWH.

## BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) for Authorization to Increase its Revenues for Water Service by \$55,771,300 or 18.71% in the year 2024, by \$19,565,300 or 5.50% in the year 2025, and by \$19,892,400 or 5.30% in the year 2026.

A.22-07-001 (Filed July 1, 2022)

### CALIFORNIA-AMERICAN WATER COMPANY'S RESPONSE TO PUBLIC ADVOCATES OFFICE'S DATA REQUEST TGE 02

Sarah E. Leeper Nicholas A. Subias Cathy Hongola-Baptista California-American Water Company 555 Montgomery Street, Suite 816 San Francisco, CA 94111 (415) 863-2960 sarah.leeper@amwater.com Lori Anne Dolqueist Willis Hon Nossaman LLP 50 California Street 34<sup>th</sup> Floor San Francisco, CA 94111 (415) 398-3600 Idolqueist@nossamna.com

Attorneys for California-American Water Company

Dated: August 24, 2022

### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Lakhjit S. Thind

Title: Rates & Regulatory Analyst

Address: California American Water

520 Capital Mall, Suite 630 Sacramento, CA 95814

ORA Request: A2207001 CAL ADV DATA REQUEST # TGE-02

Company Number: Cal ADV TGE 02 Q001

Date Received: August 11, 2022

Date Response Due: August 25, 2022

Subject Area: Purchased Power

### **DATA REQUEST:**

- 1. Please provide purchased power data for recorded years 2017 through 2020, in the same format and manner as found in the worksheet tab titled "Purchased Power Details WS-1" from workpaper "ALL\_CH04\_O&M\_WP\_Purchased Power."
  - a. Please organize this data into separate Excel worksheets, with each worksheet representing each requested year from 2017 to 2020 and organize the data in those worksheets in the same manner as the worksheet titled "Purchased Power Details WS-1" from workpaper "ALL\_CH04\_O&M\_WP\_Purchased Power," with columns for District Number, District Name, Location Number, Location Name, Unique Identifier Number, Service Type, Total Cost, and Total Kilowatt Hour Usage.

### **CAL-AM'S RESPONSE**

Please refer to CAW Response Cal Adv TGE 02 Q001 Attachment 1 for the required information.

						\$	KWH
District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1530	San Diego County District	0500006	1St & A	1530-0500006	Interconnection	256.92	
1530	San Diego County District	0500136	Highland Tank	1530-0500136	Tank	482.52	1,6
1530	San Diego County District	0500199	Montgomery Tank	1530-0500199	Tank	362.25	1,1
1530	San Diego County District	0500224	Palm Ave. Flow Meter	1530-0500224	Interconnection	116.22	1
1540	Monterey County District	0500010	Address Via Malpaso	1540-0500010	Booster	394.04	7
1540	Monterey County District	0500011	Airway Upper	1540-0500011	Tank	286.34	8
1540	Monterey County District	0500012	Airways Lower Pp #17	1540-0500012	Booster	4,605.26	20.3
1540	Monterey County District	0500013	Ambler Park Treatment Pl	1540-0500013	Treatment Plant	23,698,82	104.9
1540	Monterey County District	0500014	Ambler Park Well #4	1540-0500014	Well	2,907.89	12,6
1540	Monterey County District	0500015	Ambler Park Well #5	1540-0500014	Well	13,940.69	63,8
1540	Monterey County District	0500025	Bay Street Wells #1 & #2	1540-0500025	Well	32,782.96	200,6
1540	Monterey County District	0500025	Begonia Iron Removal Pla	1540-0500026	Treatment Plant	4,729.52	19,9
1540		0500027		1540-0500020	Treatment Plant	152,940.22	971,3
	Monterey County District		Begonia Iron Removal Pla				
1540	Monterey County District	0500028	Berwick Well #7	1540-0500028	Well	67,790.38	399,
1540	Monterey County District	0500029	Berwick Well #8	1540-0500029	Well	54,674.90	320,
1540	Monterey County District	0500031	Birdrock Standby Pump	1540-0500031	Booster	122.25	
1540	Monterey County District	0500032	Bishop #1 Well	1540-0500032	Well	8,535.55	38,
1540	Monterey County District	0500033	Bishop #2 Well	1540-0500033	Well	20,462.69	94,
1540	Monterey County District	0500035	Boots Rd.	1540-0500035	Tank	302.71	
1540	Monterey County District	0500037	Boronda Pp #67	1540-0500037	Booster	8,537.04	38,
1540	Monterey County District	0500047	Carmel Knolls	1540-0500047	Booster	17,139.55	65,
1540	Monterey County District	0500048	Carmel Valley Filter Pla	1540-0500048	Booster	2,721.38	11,
1540	Monterey County District	0500049	Carmel Valley Ranch	1540-0500049	Tank	444.68	1,
1540	Monterey County District	0500050	Carmel Valley Ranch Pp #	1540-0500050	Booster	8,771.21	39,
1542	Monterey Wastewater	0500051	Carmel Valley Ranch Wwtp	1542-0500051	Waste Water	32,540.15	194,
1540	Monterey County District	0500052		1540-0500051		654.97	1,
			Carmel Way		Booster	11.320.86	51.
1540	Monterey County District	0500053	Carmel Woods Pp #8	1540-0500053	Booster		
1540	Monterey County District	0500054	Carola Pp #71	1540-0500054	Booster	3,962.29	17,
1540	Monterey County District	0500060	Chualar Tank	1540-0500060	Well/Booster/Tank	21,112.42	97,
1540	Monterey County District	0500065	Corona	1540-0500065	Booster	6,285.03	27,
1540	Monterey County District	0500067	Corte Codollera Pp	1540-0500067	Toro-Booster	828.72	2,
1540	Monterey County District	0500075	Crespi	1540-0500075	Booster	886.98	2,
1540	Monterey County District	0500076	Crest Reservoir (Conc)	1540-0500076	Tank	305.84	
1540	Monterey County District	0500080	Cypress Well	1540-0500080	Well	181,967.50	1,238,
1540	Monterey County District	0500081	Cypress Pp #14	1540-0500081	Booster	1,975.25	8,
1540	Monterey County District	0500090	Del Mesa Pp #42	1540-0500090	Booster	5,085.02	22.
1540	Monterey County District	0500091	Del Monte Test Well	1540-0500091	Well	257.64	22,
1540	Monterey County District	0500092	Del Rey Regulating Stati	1540-0500091	Reg Station	484.20	1,
1540	Monterey County District	0500099	Dry Creek	1540-0500099	Booster	840.24	2,
1540	Monterey County District	0500102	Eardley Pp #1	1540-0500102	Booster	97,429.05	485,
1540	Monterey County District	0500103	Eddy Road	1540-0500103	Booster	1,741.44	7,
1540	Monterey County District	0500108	Encina Pp #54	1540-0500108	Booster	1,061.04	4,
1540	Monterey County District	0500116	Forest Lake Tanks	1540-0500116	Tank	410.59	1,
1540	Monterey County District	0500120	Garzas Well #3	1540-0500120	Well	11,190.35	53,
1540	Monterey County District	0500121	Garzas Well #4	1540-0500121	Well	6.877.87	32.
1540	Monterey County District	0500134	Hidden Hills Treatment P	1540-0500134	Treatment Plant	64,232.41	241
1540	Monterey County District	0500135	High Meadows Pp #45	1540-0500135	Booster	9.109.35	40.
1540	Monterey County District	0500137	Highland Pp #47	1540-0500137	Booster	1,074.57	3,
1542	Monterey Wastewater	0500137	Holt Rd Lift Station	1542-0500140	Waste Water	1,850.59	7.
1542	Monterey Wastewater Monterey County District	0500140	Huckleberry Pp #23	1540-0500140	Booster	4,731.77	19.
1540		0500143			Waste Water		
	Monterey Wastewater		Las Palmas Lift Station #1	1542-0500156		3,437.03	15,
1542	Monterey Wastewater	0500157	Las Palmas Lift Station #2	1542-0500157	Waste Water	5,628.05	25,
1542	Monterey Wastewater	0500158	Las Palmas Lift Station #3	1542-0500158	Waste Water	3,085.63	13,
1542	Monterey Wastewater	0500159	Las Palmas Lift Station #4	1542-0500159	Waste Water	791.52	2,
1542	Monterey Wastewater	0500160	Las Palmas Wastewater Tr	1542-0500160	Waste Water	90,038.96	582,
1540	Monterey County District	0500169	Los Laureles Well # 3	1540-0500169	Well	329.77	
1540	Monterey County District	0500170	Los Laureles Well #5	1540-0500170	Well	10,271.94	47,
1540	Monterey County District	0500171	Los Laureles Well #6	1540-0500171	Well	21,880.70	124,
1540	Monterey County District	0500172	Los Padres Dam	1540-0500172	Dam	631.78	1,
1540	Monterey County District	0500176	Los Tulares Lower Pp #51	1540-0500176	Booster	2,433,20	9,
1540	Monterey County District	0500177	Los Tulares Pp #50	1540-0500177	Booster	3,947.66	16,
1540		0500177		1540-0500177	Booster		
	Monterey County District		Los Tulares Upper			1,855.71	7,
1540	Monterey County District	0500179	Lower Markham Ranch Pp	1540-0500179	Toro-Booster	3,835.57	17,
1540	Monterey County District	0500180	Lower Tierra Grande	1540-0500180	Booster	3,163.67	13,
1540	Monterey County District	0500183	Luzern Well	1540-0500183	Well	52,568.20	228,
1540	Monterey County District	0500190	Mercurio Pp #59	1540-0500190	Booster	942.25	3,
1540	Monterey County District	0500191	Mesa Pp #2A	1540-0500191	Booster	43,888.20	189,
1540	Monterey County District	0500192	Meyers Pneumatic Pp #81	1540-0500192	Booster	544.84	1,
1540	Monterey County District	0500193	Middle Canyon Upper	1540-0500193	Booster	1,890.59	7,
	Monterey County District	0500194	Middle Carryon Opper Middle Tierra Grande	1540-0500194	Booster	1,618.85	6,
1540							

							\$	KWH
Montrery Vanitewater							Total Cost	
Monterey County District								
Montreere Country District								
1940   Montrery Country District   0500227   Parallar Well   1540-0500227   Waste Water   1542-050023   Waste Water   4,077-67   38,135								
1542   Montever Wastewater   0500229   Pasadera III Station #2   1542-0500229   Waste Water   7,284.18   33.15.13						***		
1542   Monterey Wastewater   0500230   Paadera Pump Station   1540-05002230   Waste Water   4,037-67   18,137								
1549   Montevey Country District								
1542   Monterey Wastewater								
1542   Montsery Wastewater   0500233   Pasidera Wurp #2   1542-0500233   Waste Water   34,467-93   20,1327								
1540   Monterey Country District   1500/0358   Pebble Beach Pp #6   1540-0500239   Booster   135.95   347   1540   Monterey Country District   1500/0358   Pebble Beach Pp #6   1540-0500239   Booster   33,773.26   157,080   1580   Monterey Country District   1500/0369   Playa Well   13   1540-0500239   Booster   33,773.26   157,080   1580   Monterey Country District   1500/0369   Playa Well   13   1540-0500240   Well   35,124.20   18,372   157,080   Monterey Country District   1500/0369   Class   Monterey Country District   1500/0369   Class   Monterey Country District   1500/0369   Playa Well   1540-0500240   Booster   1,363.57   157,080   Monterey Country District   1500/0369   Render	1542		0500233	Pasadera Wwtp #2	1542-0500233	Waste Water	34,467.93	201,327
1540   Monterey Country District   0500238   Pebble Beach Pp #6   1540-0500238   Booster   155.95   347								
1540   Monterey County District   0500239   Pebble Beach Pp 6E   1540-0500239   Booster   33,273.26   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   157,080   15								
1540   Monterey County District   5000240   Plumas Wel   1540-6500241   Well   35,124.20   183,372   1830   Monterey County District   5000246   Clumbrosey County District   5000246   Plumas Wel   1540-6500244   Well   35,124.20   183,372   1830   Monterey County District   5000248   Ragidal   Flumas Wel   1540-6500247   Treatment   25,188.00   112,917   1360   Monterey County District   5000248   Rapidal   Rapidal   Monterey County District   5000248   Rapidal   Rapidal   Monterey County District   5000248   Rapidal   Monterey County District   5000248   Rapidal   September   1540-6500248   Booster   2,313,72   384   1364   Monterey County District   5000253   Rapidal   September   1540-6500248   Booster   2,313,72   384   1364   Monterey County District   5000253   Rapidal   September   1540-6500253   Booster   1,409,14   5,963   1364   Monterey County District   5000253   Rapidal   Rapidal   September   1,409,14   5,963   1364   Monterey County District   5000253   Rapidal   Rapidal   September   1,409,14   5,963   1364   Monterey County District   5000256   Rapidal   Rapidal   1,500,000255   Rapidal   1,500,000255   Rapidal   1,500,000255   Rapidal   1,500,000256   Rapida								
1540   Montrery County District   500024   Plumas Well   1540-6500246   Bosster   1,563,7 6,315   1540   Montrery County District   5000247   Ragadale   1540-6500247   Ragadale   1540-6500247   Ragadale   1540-6500248   Well   2,200.25   9,439   1540   Montrery County District   5000248   Rajph Lane Well   1540-6500248   Well   2,200.25   9,439   1540   Montrery County District   5000249   Ranch Canada Well   1540-6500250   Well   1,26,657,7   885,529   1540   Montrery County District   5000259   Ranch Canada Well   1540-0500250   Well   1,26,657,7   885,529   1540   Montrery County District   5000259   Ranch Canada Well   1540-0500250   Well   1,26,657,7   885,529   1540   Montrery County District   5000259   Ranch Canada Well   1540-0500259   Booster   1,511,14   10,219   1,520   Montrery County District   5000259   Ranch Canada Well   1540-0500259   Booster   1,511,14   10,219   1,520   Montrery County District   5000259   Ranch Canada Well   1540-0500259   Booster   2,957,33   15,678   Montrery County District   5000259   Ranch Canada Well   1540-0500259   Booster   2,957,33   15,678   Montrery County District   5000259   Ranch Canada Well   1540-0500259   Well   792.46   2,641   Montrery County District   5000259   Robert   1540-0500259   Well   792.46   2,641   Montrery County District   5000259   Robert   1540-0500259   Well   792.46   2,641   Montrery County District   5000259   Robert   1540-0500259   Well   792.46   2,641   Montrery County District   5000259   Robert   1540-0500259   Well   792.46   2,641   Montrery County District   5000259   Robert   1540-0500259   Well   792.46   2,641   Montrery County District   5000259   Robert   1540-0500259   Well   1540-0500259   Wel								
1540   Montrery County District   5000246   Calul Meadows   1540-0500247   Treatment Plant   25,184,000   12,2917   1540   Montrery County District   5000248   Rapich Lane Well   1540-0500249   Booster   23,137,4   3364   3454   Montrery County District   5000249   Rancho Blow of part   1540-0500249   Booster   23,137,4   3364   3454   Montrery County District   5000250   Rancho Canada Well   1540-0500249   Booster   2,511,14   10,219   13540   Montrery County District   5000250   Rancho Fales P pe 62   1540-0500251   Booster   2,511,14   10,219   13540   Montrery County District   5000252   Rancho Mark Mortre   1540-0500252   Booster   1,409,14   5,983   13540   Montrery County District   5000254   Rancho Mark Mortre   1540-0500253   Booster   1,499,14   5,983   13540   Montrery County District   5000256   Rancho Mark Mortre   1540-0500254   Booster   1,499,14   5,983   13540   Montrery County District   5000256   Rancho Mark Mortre   1540-0500255   Booster   1,499,14   5,983   13540   Montrery County District   5000257   Rou Vista P pe 78 2   1540-0500257   Booster   1,499,14   5,983   13540   Montrery County District   5000259   Robbets Well   1540-0500259   Well   7,924.56   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973   13,973								
1540   Montrery County District   5000247   Rajadale   1540-0500247   Textment Plant   25,189.00   11,2917   12,917   1340   Montrery County District   5000248   Rajab Inan Well   1540-0500249   Booster   313.74   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364   364								
1540   Montrery County District   0500248   Raiph Lane Well   1540-0500249   Bootser   313-74   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592   364-592								
1540   Monterey County District   0500249   Rancho Bard Pp #10   1540-0500250   Well   12,605.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70   88.455.70								
1540   Monterey County District   0500250   Rancho Fates P p#61   1540-0500251   Boster   2,511.14   10,219   1340   Monterey County District   0500251   Rancho Fiets P p p#62   1540-0500252   Booster   1,410.97   4,258   1540   Monterey County District   0500253   Rancho Mark Monte   1540-0500253   Booster   1,491.14   5,958   1540   Monterey County District   0500254   Ridgeway   1540-0500254   Booster   2,957.33   12,678   1540   Monterey County District   0500256   Rimrock Upper Pp #82   1540-0500256   Booster   3,514.36   15.959   1540   Monterey County District   0500257   Riv Vista Pp #53   1540-0500256   Booster   3,255.20   13,874   1540   Monterey County District   0500257   Riv Vista Pp #53   1540-0500257   Booster   3,255.20   13,874   1540   Monterey County District   0500270   Robles Lower   1540-0500259   Booster   3,255.20   13,874   1540   Monterey County District   0500270   Ryan Ranch #9   1540-0500272   Well   15,298.68   91,782   1540   Monterey County District   0500273   Ryan Ranch *19   1540-0500273   Tank   2,077.03   9,389   1540   Monterey County District   0500273   Ryan Ranch *19   1540-0500274   Well   3,400,00   9,389   1540   Monterey County District   0500278   San Carlos Well #2   1540-0500278   Well   19,400,00   9,970   1540   Monterey County District   0500278   San Carlos Well #2   1540-0500278   Well   19,400,00   9,970   1540   Monterey County District   0500278   San Carlos Well #2   1540-0500278   Well   19,400,00   9,970   1540   Monterey County District   0500278   San Carlos Grade P #38   1540-0500208   Well   19,77,11   622,235   1540   Monterey County District   0500278   San Carlos Grade P #38   1540-0500208   Well   19,77,11   622,235   1540   Monterey County District   0500278   San Carlos Grade P #38   1540-0500208   Booster   1,078,33   1,832   1,840   Monterey County District   0500278   San Carlos Grade P #38   1540-0500208   Booster   1,078,33   1,843   1,840   Monterey County District   0500208   San Carlos Grade P #38   1540-0500208   Well   1,340,40								
1940   Monterey County District   0500251   Rancho Fiesta Pp #61   1540-0500252   Booster   1,140.97   4,258   1540   Monterey County District   0500253   Rancho Mar Monte   1540-0500253   Booster   1,149.91   4,258   1540   Monterey County District   0500254   Ridgeway   1540-0500254   Booster   2,957.33   12,678   1540   Monterey County District   0500256   Rimrock Upper Pp #82   1540-0500256   Booster   3,513.36   15,599   1540   Monterey County District   0500257   Riv Island Pp #83   1540-0500257   Booster   3,255.20   13,874   Monterey County District   0500257   Riv Island Pp #83   1540-0500259   Well   792.46   2,641   13,400   Monterey County District   0500278   Riv Island Pp #83   1540-0500259   Well   792.46   2,641   13,400   Monterey County District   0500279   Riv Island Pp #83   1540-0500260   Booster   6,033.23   26,121   Monterey County District   0500277   Riv Island Pp #83   1540-0500260   Booster   6,033.23   26,121   Monterey County District   0500277   Riv Island Pp #83   1540-0500279   Well   15,229.66   91,736   Monterey County District   0500277   Riv Island Pp #83   1540-0500279   Well   15,229.66   91,736   Monterey County District   0500278   Sand City Brackish Water   1540-0500278   Well   19,400.08   99,704   Monterey County District   0500280   Sand City Brackish Water   1540-0500278   Well   19,400.08   99,704   Monterey County District   0500280   Sand City Brackish Water   1540-0500278   Well   19,400.08   99,703   Monterey County District   0500280   Sand City Brackish Water   1540-0500280   Treatment Plant   101,917.71   622.295   Monterey County District   0500287   Signad   1540-0500287   Booster   19,405.33   48,486   Monterey County District   0500289   Signad   1540-0500289   Booster   19,405.33   48,486   Monterey County District   0500299   Sitrup   1540-0500299   Booster   19,005.33   48,486   Monterey County District   0500397   Treatment Plant   1540-0500299   Booster   19,005.33   48,486   Monterey County District   0500397   Treatment Plant   1540-0500399   Boo								
1540   Monterey County District   0500258   Rancho Fiesta Pp 862   1540-0500252   Booster   1,140-97   4,258   1540   Monterey County District   0500254   Ridgeway   1540-0500254   Booster   2,957.33   12,678   1540   Monterey County District   0500256   Rimrock Upper Pp #82   1540-0500256   Booster   3,55.99   1540   Monterey County District   0500257   Rio Vista Pp #53   1540-0500257   Booster   3,55.90   13,874   1540   Monterey County District   0500257   Rio Vista Pp #53   1540-0500259   Booster   3,55.90   13,874   1540   Monterey County District   0500269   Robbes Well   1540-0500259   Booster   6,033.23   26,121   1540   Monterey County District   0500277   Ryan Ranch #9   1540-0500270   Booster   6,033.23   26,121   1540   Monterey County District   0500277   Ryan Ranch #9   1540-0500273   Tank   2,077.03   9,388   1540   Monterey County District   0500278   Ryan Ranch #9   1540-0500273   Tank   2,077.03   9,388   1540   Monterey County District   0500278   Ryan Ranch Well #1   1540-0500274   Well   363.00   399   378   Monterey County District   0500278   Sanc Carlos Well #2   1560-0500275   Well   19,405.03   98,708   Monterey County District   0500278   Sanc Carlos Well #2   1560-0500278   Well   1,791.14   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579   1,579								
1540   Monterey County District   0500258   Rancho Mar Monte   1540-0500254   Roseter   1,499.14   5,963   1540   Monterey County District   0500256   Rimrock Upper Pp #82   1540-0500256   Booster   3,514.36   15,599   1540   Monterey County District   0500257   Rib Vista Pp #33   1540-0500257   Booster   3,255.20   13,874   1540   Monterey County District   0500259   Robles Well   1540-0500259   Well   792.46   2,641   1540   Monterey County District   0500259   Robles Well   1540-0500260   Booster   1,579.68   9,1786   1540   Monterey County District   0500278   Ryan Ranch #9   1540-0500272   Well   15,298.68   91,786   1540   Monterey County District   0500278   Ryan Ranch #9   1540-0500273   Well   363.00   399   1540   Monterey County District   0500274   Ryan Ranch Well #1   1540-0500274   Well   363.00   399   1540   Monterey County District   0500275   Ryan Ranch Well #1   1540-0500274   Well   363.00   399   368   Monterey County District   0500275   Ryan Ranch Well #2   1540-0500275   Well   1,490.08   89,704   Monterey County District   0500275   Ryan Ranch Well #2   1540-0500275   Well   1,490.08   89,704   Monterey County District   0500278   Ryan Ranch Well #2   1540-0500275   Well   1,490.08   89,704   Monterey County District   0500278   Syan Ranch Well #2   1540-0500278   Well   1,497.06.46   987,738   Monterey County District   0500286   Schulte Well   1540-0500286   Tertment Plant   10,191.7.11   628.295   Monterey County District   0500287   Spectacular Bid Pp #75   1540-0500286   Booster   1,090.03   48,486   Monterey County District   0500299   Strug Well   1540-0500286   Rosster   2,707.83   11.832   Monterey County District   0500396   Richards   1540-0500396   Rosster   1,090.03   Richards   R	1540							
1540   Monterey County District   0500256   Rick Upper Pp #82   1540-0500256   Booster   2,957.33   12,678	1540		0500253		1540-0500253		1,499.14	5,963
1540   Monterey County District   0500259   Robbes Well   1540-0500259   Well   792.46   2,641     1540   Monterey County District   0500260   Robbes Lower   1540-0500250   Boster   6,033.23   26,121     1540   Monterey County District   0500276   Ryan Ranch #9   1540-0500273   Tank   2,077.03   9,389     1540   Monterey County District   0500278   Ryan Ranch #9   1540-0500273   Tank   2,077.03   9,389     1540   Monterey County District   0500278   Ryan Ranch Well #1   1540-0500274   Well   363.00   399     1540   Monterey County District   0500278   Ryan Ranch Well #1   1540-0500275   Well   19,072.14   15,797     1540   Monterey County District   0500278   San Carlos Well #2   1540-0500275   Well   19,072.14   15,797     1540   Monterey County District   0500280   Sand City Bracksh Water   1540-0500280   Treatment Plant   10,1917.71   628.255     1540   Monterey County District   0500285   Segunda   1540-0500287   Booster   15,643.10   877,059     1540   Monterey County District   0500287   Segunda   1540-0500287   Booster   15,643.10   877,059     1540   Monterey County District   0500287   Segunda   1540-05000287   Booster   1,0905.33   11,832     1540   Monterey County District   0500287   Sciencial Bid IP p #75   1540-05000387   Booster   1,0905.33   11,832     1540   Monterey County District   0500307   Tierra Grande Pp #38   1540-05000307   Booster   3,006.85   17,097     1540   Monterey County District   0500308   Tiega Branch Well #4   5   1540-0500039   Booster   1,007.91   1,446     1540   Monterey County District   0500311   Upper Markhan Ranch Pp   1540-05000314   Torra-Booster   1,401.09   5,592     1540   Monterey County District   0500315   Upper Markhan Ranch Pp   1540-0500031   Booster   1,407.91   1,446     1540   Monterey County District   0500315   Upper Markhan Ranch Pp   1540-05000314   Booster   1,407.91   1,436     1540   Monterey County District   0500315   Upper Markhan Ranch Pp   1540-05000314   Booster   1,407.91   1,436     1540   Monterey County District   0500315   Wilden Low	1540		0500254	Ridgeway	1540-0500254	Booster	2,957.33	12,678
1540   Montrery Country District   0500298   Robles Well   1540-0500259   Well   792.46   2,641		Monterey County District		Rimrock Upper Pp #82	1540-0500256	Booster	3,514.36	
1540   Montrery County District   050026   Rohes Lower   1540-0500260   Booster   6,033.23   26,121						Booster		
1540   Monterey County District   0500272   Ryan Ranch 196   1540-0500272   Well   15,298.68   91,788   1540   Monterey County District   0500274   Ryan Ranch Tank   1540-0500274   Well   363.00   399   1540   Monterey County District   0500278   Ryan Ranch Well #17   1540-0500275   Well   19,400,08   97,041   1540   Monterey County District   0500278   San Carlos Well #2   1540-0500278   Well   19,471,11   1,579   1540   Monterey County District   0500278   San Carlos Well #2   1540-0500278   Well   19,972.14   1,579   1540   Monterey County District   050028   San Carlos Well #2   1540-0500278   Well   148,076.46   997,738   1540   Monterey County District   050028   San Carlos Well #2   1540-0500284   Well   148,076.46   997,738   1540   Monterey County District   0500285   Segunda   1540-0500298   Booster   15,1643.10   877,069   1540   Monterey County District   0500285   Segunda   1540-0500299   Booster   15,1643.10   877,069   1540   Monterey County District   0500295   Sirrup   1540-0500299   Booster   10,900,33   448,68   1540   Monterey County District   0500305   Telemetry Water Station   1540-0500396   Booster   10,900,33   448,68   1540   Monterey County District   0500307   Terrar Grande Pp #38   1540-0500399   Booster   3,906,88   1,007   1540   Monterey County District   0500307   Terrar Grande Pp #32   1540-0500398   Booster   1,407,711   6,941   1540   Monterey County District   0500315   Upper Mirkham Ranch Pp   1540-0500313   Booster   1,407,711   6,941   1540   Monterey County District   0500315   Upper Mirkham Ranch Pp   1540-0500313   Booster   1,407,711   6,941   1540   Monterey County District   0500315   Upper Mirkham Ranch Pp   1540-0500313   Booster   1,407,711   6,941   1540   Monterey County District   0500315   Upper Mirkham Ranch Pp   1540-0500313   Booster   1,407,711   6,941   1540   Monterey County District   0500315   Upper Mirkham Ranch Pp   1540-0500313   Booster   1,407,711   6,941   1540   Monterey County District   0500315   Upper Mirkham Ranch Pp   1540-0500331   Boos								
1540   Montreey County District   0500273   Ryan Ranch Yank   1540-0500273   Tank   2,077.03   9,389   1540   Montreey County District   0500274   Ryan Ranch Well #1   1540-0500274   Well   19,409.08   98,704   1540   Montreey County District   0500275   Ryan Ranch Well #2   1540-0500278   Well   1,972.14   1,579   1540   Montreey County District   0500280   San Carlos Well #2   1540-0500278   Well   1,972.14   1,579   1540   Montreey County District   0500280   San Carlos Well   1540-0500278   Well   1,972.14   1,579   1540   Montreey County District   0500280   Sand City Brackish Water   1540-0500280   Treatment Plant   101,917.71   6282.95   Sand City Brackish Water   1540-0500280   Well   149,076.46   987,738   1540   Montreey County District   0500287   Segunda   1540-0500287   Booster   151,643.10   877,099   1540   Montreey County District   0500289   Sirrup   1540-0500287   Booster   1,093.33   11,832   Montreey County District   0500289   Sirrup   1540-0500299   Booster   1,093.33   16,846   Montreey County District   0500305   Telemetry Water Station   1540-0500306   Montreey County District   0500307   Toynon Lower Pp #32   1540-0500308   Well   32,634.49   200,332   Montreey County District   0500308   Toynon Lower Pp #32   1540-0500309   Booster   1,077.01   6,941   Montreey County District   0500310   Toynon Lower Pp #32   1540-0500309   Booster   1,067.01   6,941   Montreey County District   0500314   Upper Markham Ranch Pp   1540-0500313   Booster   1,067.01   6,941   Montreey County District   0500315   Upper Markham Ranch Pp   1540-0500313   Booster   1,067.01   6,941   Montreey County District   0500315   Upper Markham Ranch Pp   1540-0500313   Booster   1,067.01   6,941   Montreey County District   0500314   Upper Markham Ranch Pp   1540-0500313   Booster   1,067.01   6,941   Montreey County District   0500314   Upper Markham Ranch Pp   1540-0500313   Booster   1,067.01   6,941   Montreey County District   0500314   Upper Markham Ranch Pp   1540-0500313   Booster   1,067.01   6,941   Montr								
1540   Montrerey County District   0500274   Ryan Ranch Well #17   1540-0500275   Well   19,490.98   96,704								
1540         Monterey County District         0500275         Kyan Ranch Well #2         1540-0500278         Well         1,972.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         1,572.14         2,572.14         2,572.14         2,572.14         2,572.14         2,572.14         2,572.14         2,572.14         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25         2,572.25 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								
1540         Monterey County District         0500278         San Carlos Well #2         1540 Monterey County District         1,579         1,579           1540         Monterey County District         0500280         Sand City Brackis Water         1540-0500284         Well         149,076,46         987,738           1540         Monterey County District         0500287         Segunda         1540-0500287         Booster         15,064,10         897,738           1540         Monterey County District         0500285         Spectacular Bid Pp #75         1540-0500287         Booster         15,064,10         877,039           1540         Monterey County District         0500295         Spectacular Bid Pp #75         1540-0500295         Booster         1,0505,33         48,486           1540         Monterey County District         0500305         Telemetry Water Station         1540-0500296         Flow Station         250.58         533           1540         Monterey County District         0500308         Tiega Wells #4 # ± 5         1540-0500308         Well         3,263.49         200,332           1540         Monterey County District         0500311         Tiega Wells #4 # ± 5         1540-0500308         Well         3,263.49         200,332           1540         Montere								
1540         Monterey County District         OS00280 /south Struct         Sand City Brackish Water         1540 /south Os00280         Treatment Plant         10,1917/71         628/295           1540         Monterey County District         OS00284         Segunda         1540-0500284         Well         149,076.46         987,738           1540         Monterey County District         OS00295         Segunda         1540-0500295         Booster         15,1643.10         877,098           1540         Monterey County District         OS00305         Strup         1540-0500299         Booster         1,905.33         148,886           1540         Monterey County District         OS00305         Tiera Grande Pp #38         1540-0500306         Flow Station         250.58         553           1540         Monterey County District         OS00309         Tiera Grande Pp #38         1540-0500307         Booster         1,905.34         200,332           1540         Monterey County District         OS00303         Tioga Wells #4 & # 5         1540-0500309         Booster         1,607.70         6,941           1540         Monterey County District         OS00312         Upper Tierra Grande         1540-0500313         Booster         1,627.70         6,941           1540         <								
1540   Monterey County District   O500284   Schulte Well   1540-0500284   Well   149,076.46   987,738   1540   Monterey County District   O500287   Segunda   1540-0500287   Booster   15,643,10   877,069   1540   Monterey County District   O500295   Stirrup   1540-0500295   Booster   2,707.83   11,832   1540   Monterey County District   O500395   Stirrup   1540-0500299   Booster   1,905.33   48,486   1540   Monterey County District   O500306   Telemetry Water Station   1540-0500306   Flow Station   250.58   553   1540   Monterey County District   O500307   Tierra Grande Pp #38   1540-0500306   Flow Station   250.58   17,097   1540   Monterey County District   O500307   Tierra Grande Pp #38   1540-0500308   Well   32,634.49   200,332   1540   Monterey County District   O500336   Toyon Lower Pp #32   1540-0500309   Booster   1,027.91   61,446   Monterey County District   O500314   Upper Statela D Oro Pre   1540-0500313   Booster   1,677.01   6,941   1540   Monterey County District   O500314   Upper Markham Ranch Pp   1540-0500314   Toro-Booster   1,401.09   5,592   1540   Monterey County District   O500315   Upper Tierra Grande   1540-0500314   Toro-Booster   1,401.09   5,592   1540   Monterey County District   O500332   Via Las Encinas   1540-0500321   Booster   3,411.64   10,467   1540   Monterey County District   O500332   Via Las Encinas   1540-0500321   Booster   2,411.24   10,467   1540   Monterey County District   O500332   Via Las Encinas   1540-0500323   Booster   2,421.24   10,467   1540   Monterey County District   O500332   Via Las Encinas   1540-0500323   Booster   3,636   2,157   1540   Monterey County District   O500332   Via Las Encinas   1540-0500323   Booster   3,636   2,157   1540   Monterey County District   O500332   Well #1 And #2 Highway 6   1540-0500332   Booster   1,967,01   8,209   1540   Monterey County District   O500330   Well #1 And #2 Highway 6   1540-0500332   Booster   3,070.45   259,488   1540   Monterey County District   0500340   William Park #1   1540-0500035   Booster   3,0								
1540   Monterey County District   OS00287   Segunda   1540-0500285   Booster   151,643.10   877,069   1540   Monterey County District   OS00299   Stirrup   1540-0500295   Booster   2,707.83   11,832   1540   Monterey County District   OS00306   Telemetry Water Station   1540-0500306   Flow Station   250.58   553   1540   Monterey County District   OS00307   Tierra Grande Pp #38   1540-0500307   Booster   3,906.85   17,037   1540   Monterey County District   OS00307   Tierra Grande Pp #38   1540-0500308   Well   32,634.49   200,332   1540   Monterey County District   OS00307   Toyon Lower Pp #32   1540-0500308   Well   32,634.49   200,332   1540   Monterey County District   OS00303   Toyon Lower Pp #32   1540-0500308   Booster   1,027.91   61,446   Monterey County District   OS00313   Upper Testella D Oro Pne   1540-0500313   Booster   1,677.01   6,941   1540   Monterey County District   OS00313   Upper Markham Ranch Pp   1540-0500315   Booster   1,469.72   5,934   1540   Monterey County District   OS00313   Upper Testella D Oro Pne   1540-0500313   Booster   1,469.72   5,934   1540   Monterey County District   OS00312   Via Contenta   1540-0500313   Booster   9,110.54   41,561   1540   Monterey County District   OS00321   Via Contenta   1540-0500322   Booster   9,110.54   41,561   1540   Monterey County District   OS00323   Vieja Tank   1540-0500323   Booster   684.06   2,157   1540   Monterey County District   OS00323   Vieja Tank   1540-0500323   Booster   6,77.01   8,209   1540   Monterey County District   OS00323   Well #1 And #2 Highway 6   1540-0500330   Booster   1,957.01   8,209   1540   Monterey County District   OS00330   Well #1 And #2 Highway 6   1540-0500331   Booster   1,577.96   68,323   1540   Monterey County District   OS00330   Well #1 And #2 Highway 6   1540-0500330   Booster   1,577.96   68,323   1540   Monterey County District   OS00340   Well #1 And #2 Highway 6   1540-0500340   Tank   220.37   36,340   36,340   36,340   36,340   36,340   36,340   36,340   36,340   36,340   36,340   36,3								
1540   Monterey County District   0500295   Spectacular Bid Pp #75   1540-0500295   Booster   1,070.83   11,832   1540   Monterey County District   0500295   Stirrup   1540-0500396   Flow Station   250.58   553   1540   Monterey County District   0500307   Telemetry Water Station   1540-0500306   Flow Station   250.58   553   1540   Monterey County District   0500307   Telemetry Water Station   1540-0500307   Booster   3,906.85   17,097   1540   Monterey County District   0500307   Tigra Wells #8 # \$   1540-0500308   Well   32,634.49   200,332   1540   Monterey County District   0500317   Upper Markham Ranch Pp   1540-0500318   Booster   1,677.01   6,941   1540   Monterey County District   0500314   Upper Markham Ranch Pp   1540-0500314   Booster   1,401.09   5,592   1540   Monterey County District   0500315   Upper Tierra Grande   1540-0500315   Booster   1,401.09   5,593   1540   Monterey County District   0500312   Via Contenta   1540-0500312   Booster   1,401.09   5,593   1540   Monterey County District   0500321   Via Contenta   1540-0500321   Booster   1,401.09   5,593   1540   Monterey County District   0500322   Viejo Tank   1540-0500323   Booster   2,421.24   10,467   1540   Monterey County District   0500322   Viejo Tank   1540-0500323   Booster   2,421.24   10,467   1540   Monterey County District   0500320   Viscaino   1540-0500323   Booster   684.06   2,157   1540   Monterey County District   0500330   Waldon Lower   1540-0500330   Booster   1,967.01   8,200   1540   Monterey County District   0500330   Waldon Lower   1540-0500347   Booster   15,577.96   88,323   1540   Monterey County District   0500340   Willet And #2 Highway 6   1540-0500347   Reg Station   20,140.94   87,771   1540   Monterey County District   0500340   Willet And #2 Highway 6   1540-0500347   Reg Station   20,140.94   87,771   1540   Monterey County District   0500350   Willet Regulating Sta   1540-0500360   Tank   322.75   972   1540   Monterey County District   0500350   Willet Regulating Sta   1540-0500360   Tank   322.7						******		
1540   Monterey County District   0500309   Sirrup   1540-0500396   Blooster   10,905,33   48,486   1540   Monterey County District   0500307   Tierra Grande Pp #38   1540-0500307   Blooster   3,906.85   17,097   1540   Monterey County District   0500307   Tierra Grande Pp #38   1540-0500308   Well   32,634.49   200,332   1540   Monterey County District   0500309   Toyon Lower Pp #32   1540-0500309   Blooster   14,077.91   61,446   1540   Monterey County District   0500313   Upper Estrella D Oro Pne   1540-0500313   Blooster   1,677.01   6,941   1540   Monterey County District   0500313   Upper Tierra Grande   1540-0500314   Toro-Booster   1,401.09   5,592   1540   Monterey County District   0500315   Upper Tierra Grande   1540-0500315   Blooster   1,469.72   5,934   1540   Monterey County District   0500321   Via Contenta   1540-0500321   Blooster   3,110.54   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561   41,561								
1540         Monterey County District         050306         Felemetry Water Station         1540-0500306         Flow Station         250.58         563           1540         Monterey County District         0500308         Tiegra Mells #4 & #5         1540-0500308         Well         32,634.49         20,332           1540         Monterey County District         0500308         Toyon Lower Pp #32         1540-0500309         Booster         14,027.91         61,446           1540         Monterey County District         0500314         Upper Fistrella D Oro Pne         1540-0500314         Booster         1,677.01         6,941           1540         Monterey County District         0500314         Upper Tierra Grande         1540-0500314         Toro-Booster         1,401.09         5,592           1540         Monterey County District         0500321         Via Contente         1540-0500314         Toro-Booster         1,469.72         5,934           1540         Monterey County District         0500322         Via Las Encinas         1540-0500322         Booster         3,411.24         10,467           1540         Monterey County District         0500329         Viscaino         1540-050032         Booster         3,667.01         8,242.124         10,467           1540	1540		0500299		1540-0500299			
1540   Monterey County District   0500307   Tierra Grande Pp #38   1540-0500307   Booster   3,906.85   17,097   1540   Monterey County District   0500308   Togo Nells #4 & # 5   1540-0500308   Well   32,634.49   200,332   1540   Monterey County District   0500313   Upper Estrella D Oro Pne   1540-0500309   Booster   16,027.91   61,446   Monterey County District   0500313   Upper Estrella D Oro Pne   1540-0500313   Booster   1,677.01   6,941   1540   Monterey County District   0500314   Upper Markham Ranch Pp   1540-0500314   Toro-Booster   1,401.09   5,592   1540   Monterey County District   0500315   Upper Tierra Grande   1540-0500315   Booster   1,469.72   5,934   1540   Monterey County District   0500312   Via Contenta   1540-0500321   Booster   9,110.54   41,561   1540   Monterey County District   0500322   Via Las Encinas   1540-0500322   Booster   9,110.54   41,561   1540   Monterey County District   0500323   Viejo Tank   1540-0500322   Booster   2,421.24   10,467   1540   Monterey County District   0500323   Viejo Tank   1540-0500323   Booster   684.06   2,157   1540   Monterey County District   0500330   Waldon Lower   1540-0500330   Booster   1,967.01   8,209   1540   Monterey County District   0500330   Waldon Lower   1540-0500330   Booster   1,577.96   68,323   1540   Monterey County District   0500350   Withers Pp #12   1540-0500350   Booster   1,577.96   68,323   1540   Monterey County District   0500350   Withers Pp #12   1540-0500350   Booster   1,577.96   68,323   1540   Monterey County District   0500350   Monterey County District   0500350   Monterey County District   0500350   Monterey County District   0500450   Crest Canyon Tank   1540-0504056   Tank   322.75   972   1540   Monterey County District   0504050   Crest Canyon Tank   1540-0504056   Tank   280.39   779   1540   Monterey County District   0504050   Crest Canyon Tank   1540-0504056   Tank   280.39   779   1540   Monterey County District   0504050   Crest Canyon Tank   1540-0504056   Tank   280.39   779   1540   Monterey County	1540		0500306	Telemetry Water Station	1540-0500306	Flow Station		
1540   Monterey County District   0500309   Toyon Lower Pp #32   1540-0500309   Booster   14,027.91   51,446				Tierra Grande Pp #38		Booster	3,906.85	17,097
1540   Monterey County District   O500313   Upper Estrella D Oro Pne   1540-0500313   Booster   1,677.01   6,941						Well	32,634.49	200,332
1540   Monterey County District   0500314   Upper Markham Ranch Pp   1540-0500314   Toro-Booster   1,401.09   5,592								
1540   Monterey County District   O500315   Upper Tierra Grande   1540-0500315   Booster   1,469.72   5,934								
1540   Monterey County District   0500321   Via Contenta   1540-0500321   Booster   9,110.54   41,561   1540   Monterey County District   0500322   Via Las Encinas   1540-0500323   Booster   2,421.24   10,467   1540   Monterey County District   0500323   Viejo Tank   1540-0500323   Tank   305,72   822   1540   Monterey County District   0500329   Viscaino   1540-0500323   Booster   684.06   2,157   1540   Monterey County District   0500330   Waldon Lower   1540-0500330   Booster   1,967.01   8,209   1540   Monterey County District   0500330   Well #1 And #2 Highway 6   1540-0500332   Booster   1,967.01   8,209   1540   Monterey County District   0500330   Withers Pp #12   1540-0500332   Booster   15,577.96   68,323   1540   Monterey County District   0500350   Withers Pp #12   1540-0503347   Reg Station   20,140,94   87,771   1540   Monterey County District   0503580   Mount Devon Tank   1540-0503480   Tank   322.75   972   1540   Monterey County District   0504015   Ambier Oaks Well   1540-0504015   Well   370.44   1,221   1540   Monterey County District   0504015   Ambier Oaks Well   1540-0504015   Well   370.44   1,221   1540   Monterey County District   0504050   Uper Toyon Tank   1540-0504015   Well   370.44   1,221   1540   Monterey County District   0504050   Uper Toyon Tank   1540-0504015   Well   370.44   1,221   1540   Monterey County District   0504050   Uper Toyon Tank   1540-0504016   Booster   4,244.57   19,009   14,000   14,000   14,000   Uper Toyon Tank   1540-0504016   Well   370.44   1,221   1540   Monterey County District   0504050   Uper Toyon Tank   1540-0504016   Well   4,495.53   277,760   1550   Los Angeles County District   0500019   Angeles Mesa Reservoir   1550-05000019   Booster   7,912.27   25,615   1550   Los Angeles County District   0500019   Garth Reservoir   1550-0500019   Booster   4,785.35   277,760   1550   Los Angeles County District   0500014   Homeland Reservoir   1550-0500014   Well   94,999.68   639,360   1550   Los Angeles County District   0500021   Miller Homeland								
1540   Monterey County District   0500322   Via Las Encinas   1540-0500322   Booster   2,421.24   10,467   1540   Monterey County District   0500323   Viejo Tank   1540-0500323   Tank   305.72   822   1540   Monterey County District   0500330   Vision   1540-0500329   Booster   684.06   2,157   1540   Monterey County District   0500330   Waldon Lower   1540-0500330   Booster   1,967.01   8,209   1540   Monterey County District   0500330   Will #1 And #2 Highway 6   1540-0500332   Toro-Well/Treatment   53,070.45   259,468   1540   Monterey County District   0500350   Withers Pp #12   1540-0500350   Booster   15,577.96   68,323   1540   Monterey County District   05003447   Del Monte Regulating Sta   1540-05003447   Reg Station   20,140.94   87,771   1540   Monterey County District   050447   Del Monte Regulating Sta   1540-0503380   Tank   322.75   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   972   9								
1540   Monterey County District   0500323   Viejo Tank   1540-0500323   Booster   684,06   2,157								
1540   Monterey County District   O500339   Viscaine   1540-0500329   Booster   1,967.01   8,209   1540   Monterey County District   O500330   Well #1 And #2 Highway 6   1540-0500330   Booster   1,967.01   8,209   1540   Monterey County District   O500332   Well #1 And #2 Highway 6   1540-0500332   Booster   1,577.96   269,468   1540   Monterey County District   O500350   Withers Pp #12   1540-0500350   Booster   15,577.96   68,323   Monterey County District   O503447   Del Monterey County District   O503580   Mount Devon Tank   1540-0503580   Tank   322.75   972   Monterey County District   O504347   Del Monterey County District   O504010   Lower Estrello D Oro   1540-0504010   Booster   4,244.57   19,009   1540   Monterey County District   O504056   Crest Canyon Tank   1540-0504015   Well   370.44   1,221   1540   Monterey County District   O504056   Crest Canyon Tank   1540-0504056   Tank   280.39   779   1540   Monterey County District   O504056   Crest Canyon Tank   1540-05040056   Tank   280.39   779   1540   Monterey County District   O504056   Crest Canyon Tank   1540-05040056   Tank   280.39   779   1540   Monterey County District   O504056   Crest Canyon Tank   1540-05040056   Tank   280.39   779   1540   Monterey County District   O504056   Crest Canyon Tank   1540-05040056   Tank   280.39   779   1540   Monterey Wastewater   O504176   Garrapata Pump #5   1540-0504127   Well   8,499.52   36,340   1550   Los Angeles County District   O500019   Angeles Mesa Reservoir   1550-05000019   Booster   7,912.27   25,615   1550   Los Angeles County District   O500014   Angeles Mesa Reservoir   1550-05000014   Well   94,999.68   639,360   1550   Los Angeles County District   O500014   Homeland Reservoir   1550-05000014   Well   94,999.68   639,360   1550   Los Angeles County District   O500014   Homeland Reservoir   1550-05000018   Booster   2,504.816   189,790   1550   Los Angeles County District   O500015   Sarth Reservoir   1550-05000128   Booster   25,048.16   189,790   1550   Los Angeles County District								
1540   Monterey County District   0500330   Waldon Lower   1540-0500330   Booster   1,967.01   8,209								
1540   Monterey County District   O500332   Well #1 And #2 Highway 6   1540-0500332   Toro-Well/Treatment   53,070.45   269,468   1540   Monterey County District   O500340   Withers P #12   1540-0500350   Booster   15,577.96   68,323   1540   Monterey County District   O503447   Del Monterey County District   O503580   Mount Devon Tank   1540-0503447   Reg Station   20,140,94   87,771   1540   Monterey County District   O504010   Lower Estrello D Oro   1540-0503447   Reg Station   20,140,94   87,771   1540   Monterey County District   O504011   Cover Estrello D Oro   1540-0504015   Well   370.44   1,221   1540   Monterey County District   O504015   Ambier Oaks Well   1540-0504015   Well   370.44   1,221   1540   Monterey County District   O504015   Crest Canyon Tank   1540-0504005   Tank   280.39   779   1540   Monterey County District   O504015   Over Toyn Tank #1   1540-0504005   Tank   280.39   779   1540   Monterey County District   O504015   Garrapata Pump #5   1540-05040127   Well   8,499.52   36,340   1542   Monterey Wastewateer   O504176   Spreckels Wastewater Tre   1542-0504176   Waste Water   1,452.99   5,741   1550   Los Angeles County District   O500019   Angeles Mesa Reservoir   1550-0500008   Well   47,855.35   277,760   1550   Los Angeles County District   O500074   Creshaw Well   1550-0500019   Booster   7,912.27   25,615   1550   Los Angeles County District   O500019   Garth Reservoir   1550-0500019   Booster   8,757.27   66,915   1550   Los Angeles County District   O500023   Mt. Vernon Reservoir   1550-0500028   Booster   1,608.61   89,790   1550   Los Angeles County District   O500292   Slauson Avenue Corrosion   1550-0500028   Treatment Plant   339.82   290   1550   Los Angeles County District   O500292   Slauson Avenue Corrosion   1550-0500229   Treatment Plant   339.82   290   1550   Los Angeles County District   O500292   Slauson Avenue Corrosion   1550-0500229   Treatment Plant   339.82   290   1550   Los Angeles County District   O500292   Slauson Avenue Corrosion   1550-0500229   Tr								
1540   Monterey County District   0500350   Withers Pp #12   1540-0500350   Booster   15,577.96   68,323								
1540   Monterey County District   0503447   Del Monte Regulating Sta   1540-0503447   Reg Station   20,140,94   87,771								
1540   Monterey County District   0503890   Mount Devon Tank   1540-0503380   Tank   322.75   972   1540   Monterey County District   0504015   Ambier Oaks Well   1540-0504015   Well   370.44   1,221   1540   Monterey County District   0504015   Ambier Oaks Well   1540-0504015   Well   370.44   1,221   1540   Monterey County District   0504056   Crest Canyon Tank   1540-0504056   Tank   280.39   779   1540   Monterey County District   0504050   Upper Toyon Tank   1540-0504096   Tank   207.13   363   1540   Monterey County District   0504017   Garrapata Pump #5   1540-0504127   Well   8,499.52   36,340   1542   Monterey Wastewateer   0504176   Spreckels Wastewater Tre   1542-0504176   Waste Water   1,452.99   5,741   1550   Los Angeles County District   0500019   Angeles Mesa Reservoir   1550-0500008   Well   47,855.35   277,760   1550   Los Angeles County District   0500019   Angeles Mesa Reservoir   1550-0500019   Booster   7,912.27   25,615   Los Angeles County District   0500014   Arington Well   1550-0500074   Well   94,999.68   639,360   1550   Los Angeles County District   0500014   Homeland Reservoir   1550-05000119   Booster   8,757.27   66,915   1550   Los Angeles County District   0500023   Mt. Vernon Reservoir   1550-0500028   Booster   1,608.61   89,790   1550   Los Angeles County District   0500292   Slauson Avenue Corrosion   1550-0500228   Treatment Plant   339.82   290   1550   Los Angeles County District   0500292   Slauson Avenue Corrosion   1550-0500229   Treatment Plant   339.82   290   1550   Los Angeles County District   0500292   Slauson Avenue Corrosion   1550-0500229   Treatment Plant   339.82   290   1550   Los Angeles County District   0500292   Slauson Avenue Corrosion   1550-0500229   Treatment Plant   339.82   290   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   1550   15						Reg Station		
1540         Monterey County District         0504010         Lower Estrello D Oro         1540-0504010         Booster         4,244.57         19,009           1540         Monterey County District         0504015         Ambler Oaks Well         1540-0504015         Well         370.44         1,221           1540         Monterey County District         0504050         Crest Canyon Tank         1540-0504096         Tank         280.39         779           1540         Monterey County District         0504090         Upper Toyon Tank #1         1540-0504090         Tank         207.13         363           1540         Monterey County District         0504176         Spreckels Wastewater Tre         1540-0504127         Well         8,499.52         36,340           1550         Los Angeles County District         0500008         Waste Water         1,452.99         5,741           1550         Los Angeles County District         0500008         Well         47,855.35         277,760           1550         Los Angeles County District         0500001         Arlington Well         1550-0500001         Well         2,373.58         1,520           1550         Los Angeles County District         0500014         Homeland Reservoir         1550-0500014         Tank <td< td=""><td>1540</td><td></td><td>0503580</td><td></td><td>1540-0503580</td><td></td><td></td><td></td></td<>	1540		0503580		1540-0503580			
1540         Monterey County District         0504055         Crest Canyon Tank         1540-0504056         Tank         280.39         779           1540         Monterey County District         0504090         Upper Toyon Tank #1         1540-0504090         Tank         207.13         363.30           1540         Monterey County District         0504127         Garrapata Pump #5         1540-0504127         Well         8,499.52         36,340           1552         Los Angeles County District         0500008         84Th Street Well         1550-0500008         Well         47,855.35         277,760           1550         Los Angeles County District         0500019         Angeles Mesa Reservoir         1550-0500008         Well         47,855.35         277,615           1550         Los Angeles County District         0500019         Angeles Mesa Reservoir         1550-05000019         Booster         7,912.27         25,615           1550         Los Angeles County District         0500014         Crenshaw Well         1550-0500001         Well         94,999.68         639,360           1550         Los Angeles County District         0500119         Garth Reservoir         1550-05000119         Booster         8,757.27         66,915           1550         Los Angeles Co	1540	Monterey County District	0504010		1540-0504010	Booster	4,244.57	19,009
1540         Monterey County District         0504090         Upper Toyon Tank #1         1540-0504090         Tank         207.13         363           1540         Monterey County District         0504127         Garrapata Pump #5         1540-0504127         Well         8,499.52         36,340           1542         Monterey Wastewater         0504176         Spreckels Wastewater Tre         1542-0504176         Waste Water         1,452.99         5,741           1550         Los Angeles County District         0500008         48Th Street Well         1550-0500008         Well         47,855.35         277,760           1550         Los Angeles County District         0500012         Angeles Mesa Reservoir         1550-05000019         Booster         7,912.27         25,615           1550         Los Angeles County District         0500021         Arlington Well         1550-05000021         Well         2,373.58         1,520           1550         Los Angeles County District         0500019         Garth Reservoir         1550-05000074         Well         9,999.68         639,360           1550         Los Angeles County District         0500141         Homeland Reservoir         1550-0500119         Booster         7,77.27         66,915           1550         Los Angeles		Monterey County District	0504015	Ambler Oaks Well	1540-0504015	Well	370.44	1,221
1540         Monterey County District         0504127         Garrapata Pump #5         1540-0504127         Well         8,499.52         36,340           1542         Monterey Wastewater         0504176         Spreckels Wastewater Tre         1542-0504176         Waste Water         1,452.99         5,741           1550         Los Angeles County District         0500008         48Th Street Well         1550-0500008         Well         47,855.35         277,760           1550         Los Angeles County District         0500019         Angeles Mesa Reservoir         1550-0500019         Booster         7,912.27         25,615           1550         Los Angeles County District         0500021         Arlington Well         1550-0500074         Well         9,999.68         639,360           1550         Los Angeles County District         0500019         Garth Reservoir         1550-0500019         Booster         8,757.27         66,915           1550         Los Angeles County District         0500021         Homeland Reservoir         1550-0500014         Tank         459,96         928           1550         Los Angeles County District         0500230         Mt. Vernon Reservoir         1550-0500203         Booster         10,608.61         89,790           1550         Los								
1542         Monterey Wastewater         0504176         Spreckels Wastewater Tre         1542-0504176         Waste Water         1,452.99         5,741           1550         Los Angeles County District         0500008         48Th Street Well         1550-0500008         Well         47,855.35         277,760           1550         Los Angeles County District         050001         Angeles Mesa Reservoir         1550-0500021         Well         2,373.58         1,520           1550         Los Angeles County District         0500014         Grenshaw Well         1550-05000074         Well         94,999.68         639,360           1550         Los Angeles County District         0500119         Garden Reservoir         1550-0500011         Booster         8,757.27         66,915           1550         Los Angeles County District         0500141         Homeland Reservoir         1550-0500141         Tank         459,96         928           1550         Los Angeles County District         0500203         Mt. Vernon Reservoir         1550-0500203         Booster         16,608.61         89,790           1550         Los Angeles County District         0500218         Olympiad Reservoir         1550-0500292         Treatment Plant         339,82         290								
1550         Los Angeles County District         0500008         48Th Street Well         1550-0500008         Well         47,855.35         277,760           1550         Los Angeles County District         0500019         Angeles Reservoir         1550-0500019         Booster         7,912.27         25,615           1550         Los Angeles County District         0500021         Arlington Well         1550-0500021         Well         2,373.58         1,520           1550         Los Angeles County District         0500074         Crenshaw Well         1550-0500074         Well         94,999.68         639,360           1550         Los Angeles County District         0500141         Homeland Reservoir         1550-0500141         Tank         459,96         928           1550         Los Angeles County District         0500203         Mt. Vernon Reservoir         1550-0500203         Booster         10,608.61         89,790           1550         Los Angeles County District         0500218         Olympiad Reservoir         1550-0500228         Booster         20,481.6         184,930           1550         Los Angeles County District         0500292         Slauson Avenue Corrosion         1550-0500222         Treatment Plant         339,82         290								
1550         Los Angeles County District         0500019         Angeles Mesa Reservoir         1550-0500019         Booster         7,912.27         25,615           1550         Los Angeles County District         0500021         Aflington Well         1550-0500021         Well         2,373.58         1,520           1550         Los Angeles County District         0500019         Garth Reservoir         1550-0500019         Booster         8,757.27         66,915           1550         Los Angeles County District         0500141         Homeland Reservoir         1550-05000119         Booster         8,757.27         66,915           1550         Los Angeles County District         0500141         Homeland Reservoir         1550-0500014         Tank         459,96         928           1550         Los Angeles County District         0500203         Mt. Vernon Reservoir         1550-0500203         Booster         10,608.61         89,790           1550         Los Angeles County District         0500218         Oiympiad Reservoir         1550-0500218         Booster         25,048.16         184,930           1550         Los Angeles County District         0500292         Slauson Avenue Corrosion         1550-0500222         Treatment Plant         339,82         290								
1550         Los Angeles County District         0500021         Arlington Well         1,520         Well         2,373,58         1,520           1550         Los Angeles County District         0500074         Crenshaw Well         1550-0500074         Well         94,999,68         639,360           1550         Los Angeles County District         0500119         Garden Reservoir         1550-0500119         Booster         8,757,27         66,915           1550         Los Angeles County District         0500141         Homeland Reservoir         1550-0500141         Tank         459,96         928           1550         Los Angeles County District         0500203         Mt. Vernon Reservoir         1550-0500203         Booster         10,608,61         89,790           1550         Los Angeles County District         0500218         Olympiad Reservoir         1550-0500292         Rooster         25,048,16         184,930           1550         Los Angeles County District         0500292         Slauson Avenue Corrosion         1550-0500292         Treatment Plant         339,82         290								
1550         Los Angeles County District         0500074         Crenshaw Well         1550-0500074         Well         94,999.68         639,360           1550         Los Angeles County District         0500119         Garth Reservoir         1550-0500119         Booster         8,757.27         66,915           1550         Los Angeles County District         0500141         Homeland Reservoir         1550-0500141         Tank         459,96         928           1550         Los Angeles County District         0500203         Mt. Vernon Reservoir         1550-0500203         Booster         10,608.61         89,790           1550         Los Angeles County District         0500218         Olympiad Reservoir         1550-0500228         Booster         25,048.16         184,930           1550         Los Angeles County District         0500292         Slauson Avenue Corrosion         1550-0500229         Treatment Plant         339,82         290								
1550         Los Angeles County District         0500119         Garth Reservoir         1550-0500119         Booster         8,757.27         66,915           1550         Los Angeles County District         0500141         Homeland Reservoir         1550-0500141         Tank         459.96         928           1550         Los Angeles County District         0500203         Mt. Vernon Reservoir         1550-0500203         Booster         10,608.61         89,790           1550         Los Angeles County District         0500218         Olympiad Reservoir         1550-0500218         Booster         25,048.16         184,930           1550         Los Angeles County District         0500292         Slauson Avenue Corrosion         1550-0500292         Treatment Plant         339.82         290								
1550         Los Angeles County District         0500141         Homeland Reservoir         1550-0500141         Tank         459.96         928           1550         Los Angeles County District         0500203         Mt. Vernon Reservoir         1550-0500203         Booster         126,008.61         89,790           1550         Los Angeles County District         0500218         Olympiad Reservoir         1550-0500218         Booster         25,048.16         184,930           1550         Los Angeles County District         0500292         Slauson Avenue Corrosion         1550-0500292         Treatment Plant         339.82         290								
1550         Los Angeles County District         0500203         Mt. Vernon Reservoir         1550-0500203         Booster         10,608.61         89,790           1550         Los Angeles County District         0500218         O500218         Booster         25,048.16         184,930           1550         Los Angeles County District         0500292         Slauson Avenue Corrosion         1550-0500292         Treatment Plant         339,82         290								
1550         Los Angeles County District         0500218         Olympiad Reservoir         1550-0500218         Booster         25,048.16         184,930           1550         Los Angeles County District         0500292         Slauson Avenue Corrosion         1550-0500292         Treatment Plant         339.82         290								
1550 Los Angeles County District 0500292 Slauson Avenue Corrosion 1550-0500292 Treatment Plant 339.82 290								

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istrict #	District Name	Location #		Uniqe Identifier	Service Type	Total Cost	Total Usage
1550	Los Angeles County District	0500320	Vernon Well #3	1550-0500320	Well	97,133.81	664,080
1550	Los Angeles County District	0500337	West Basin 27 Connection	1550-0500337	Interconnection	438.22	966
1550	Los Angeles County District	0500024	Bacon Well	1550-0500024	Well	4,372.39	2,60
1550	Los Angeles County District	0500039	Bradbury Tank	1550-0500039	Tank	1,639.10	9,27
1550	Los Angeles County District	0500041	Brookridge Booster Stn	1550-0500041	Booster	559.04	944
1550	Los Angeles County District	0500042	Buena Vista Well	1550-0500042	Well	97,785.36	738,412
1550	Los Angeles County District	0500079	Crownhaven Well	1550-0500079	Well	137,889.24	1,167,72
1550	Los Angeles County District	0500107	Encanto Well	1550-0500107	Well	43,994.79	56,333
1550	Los Angeles County District	0500113	Fish Canyon Well	1550-0500113	Well	966.42	1,533
1550	Los Angeles County District	0500154	Las Lomas Booster	1550-0500154	Booster	17,532.33	134,433
1550	Los Angeles County District	0500155	Las Lomas Well	1550-0500155	Well	65,994.68	519,013
1550	Los Angeles County District	0500164	Lemon Irrigation Booster	1550-0500164	Irrig Booster	14,036.96	71,90
1550	Los Angeles County District	0500282	Santa Fe Well	1550-0500282	Well	43,907.79	268,442
1550	Los Angeles County District	0500286	Scott Reservoir/ Booster	1550-0500286	Booster	56,160.68	482,57
1550	Los Angeles County District	0500296	Spinks Reservoir/Booster	1550-0500296	Booster	3,969,69	12.74
1550	Los Angeles County District	0500230	Vineyard Booster Stn	1550-0500250	Booster	12.108.96	81.219
1550	Los Angeles County District	0500347	Wiley Well	1550-0500347	Well	112,342.37	1,097,484
1550	Los Angeles County District	0500083	Danford Reservoir	1550-0500083	Booster	49,993.13	392,340
1550	Los Angeles County District	0500089	Del Mar Well	1550-0500089	Well	61,675.25	501,128
1550	Los Angeles County District	0500125	Grand Well	1550-0500125	Well	64,226.24	642,604
1550	Los Angeles County District	0500129	Guess Well	1550-0500129	Well	277.64	973
1550	Los Angeles County District	0500131	Hall Well	1550-0500131	Well	83,708.19	756,449
1550	Los Angeles County District	0500142	Howland Well	1550-0500142	Well	76,957.11	680,326
1550	Los Angeles County District	0500150	Lamanda Reservoir/Well S	1550-0500150	Booster	57,517.74	310,00
1550	Los Angeles County District	0500167	Lombardy Well	1550-0500167	Well	95,120.68	899,023
1550	Los Angeles County District	0500168	Longden Well/Reservoir	1550-0500168	Well	60,591.26	420,164
1550	Los Angeles County District	0500186	Mariposa Well	1550-0500186	Well	51,948.67	425,70
1550	Los Angeles County District	0500196	Mission View Well	1550-0500196	Well	3,136.73	1,75
1550	Los Angeles County District	0500198	Monterey Booster	1550-0500198	Booster	2,555.21	19,630
1550	Los Angeles County District	0500212	Oak Knoll Circle Well	1550-0500212	Well	300.31	960
1550	Los Angeles County District	0500213	Oak Knoll Reservoir	1550-0500212	Booster	53,578.92	247,52
1550	Los Angeles County District	0500213	Oswego Well	1550-0500213	Well	7,797.54	60
1550	Los Angeles County District	0500221	Patton Reservoir/Well	1550-0500221	Well	60,998.44	320,100
1550	Los Angeles County District	0500258	Roanoke Well	1550-0500258	Well	499.62	
					Well		1 710 50
1550	Los Angeles County District	0500265	Rosemead Well	1550-0500265		183,605.78	1,748,680
1550	Los Angeles County District	0500349	Winston Well	1550-0500349	Well	47,803.35	418,22
1550	Los Angeles County District	0504397	Adams Ranch	1550-0504397	Interconnection	527.63	8
1551	Ventura County District	0500016	American Oaks Booster St	1551-0500016	Booster	16,097.06	104,28
1551	Ventura County District	0500036	Borchard Road Turnout	1551-0500036	Interconnection	332.43	32
1551	Ventura County District	0500046	Calle Yucca Turnout	1551-0500046	Interconnection	337.67	37
1551	Ventura County District	0500087	Deer Ridge Tank/Pump Sta	1551-0500087	Booster	11,996.43	55,66
1551	Ventura County District	0500088	Deer Valley Booster Stat	1551-0500088	Booster	8,928.16	54,24
1551	Ventura County District	0500094	Dewey Booster Station	1551-0500094	Booster	9,671.38	64,83
1551	Ventura County District	0500098	Dos Vientos Booster/Potr	1551-0500098	Booster	106,985.21	701,72
1551	Ventura County District	0500115	Fordham Booster Station	1551-0500115	Booster	318.40	24
1551	Ventura County District	0500126	Green Ridge Tank	1551-0500126	Tank	311.90	19
1551	Ventura County District	0500127	Greenmeadow Booster Stat	1551-0500127	Booster	336.06	35
1551	Ventura County District	0500127	Hillcrest Drive Booster	1551-0500127	Booster	7,930.52	47,92
1551	Ventura County District	0500133	Industrial Tanks	1551-0500133	Tank	452.98	1,02
1551	Ventura County District	0500144	Janss Booster Station	1551-0500144	Booster	8.454.86	61,76
1551		0500146	Janss Tank	1551-0500146			
	Ventura County District		***************************************		Tank	317.71	23
1551	Ventura County District	0500149	Kimber Booster Station	1551-0500149	Booster	1,843.25	11,40
1551	Ventura County District	0500153	Las Flores Turnout	1551-0500153	Booster	341.82	40
1551	Ventura County District	0500161	Las Posas Booster Statio	1551-0500161	Booster	18,545.77	125,89
1551	Ventura County District	0500173	Los Robles Booster Stati	1551-0500173	Booster	17,528.20	103,23
1551	Ventura County District	0500174	Los Robles Tanks	1551-0500174	Tank	320.23	24
1551	Ventura County District	0500175	Los Robles Turnout	1551-0500175	Interconnection	339.26	38
1551	Ventura County District	0500189	Mayfield Booster Station	1551-0500189	Booster	11,351.83	104,84
1551	Ventura County District	0500201	Moorpark Booster Station	1551-0500201	Booster	16,383.21	77,60
1551	Ventura County District	0500202	Moorpark Reservoir	1551-0500202	Tank	639.31	2,44
1551	Ventura County District	0500217	Olsen Road Turnout	1551-0500217	Interconnection	344.62	40
1551	Ventura County District	0500217	Orbis Tank	1551-0500217	Tank	315.44	21
1551	Ventura County District	0500213	Pace Reservoir	1551-0500213	Tank	309.91	18
1551	Ventura County District	0500222	Potrero I Reservoir	1551-0500222	Tank	314.43	20
							20
1551	Ventura County District	0500289	Shopping Center I Reserv	1551-0500289	Tank	282.89	
1551	Ventura County District	0500290	Shopping Center li Reser	1551-0500290	Tank	528.34	27
1551	Ventura County District	0500297	Springwood Booster Stati	1551-0500297	Booster	4,724.79	40,35
1551	Ventura County District	0500340	White Stallion Tank	1551-0500340	Tank	7,578.84	66,80
1551	Ventura County District	0500344	Wildwood Booster Station	1551-0500344	Booster	6,910.36	41,32
	Ventura County District	0500345	Wildwood Tank	1551-0500345	Tank	2,238.90	14,25
1551	ventura County District	0500545	TTHOUTOOD TOTAL			2,230.30	17,20

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District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1560	Sacramento District	0500005	14020 Isle View Way	1560-0500005	Well	18,240.19	77,772
1560	Sacramento District		A Parkway Booster Statio	1560-0500009	Interconnection	7,697.74	55,878
1560	Sacramento District	0500017	Andrea #1 Well	1560-0500017	Well	33,081.74	224,465
1560	Sacramento District		Andrea #2 Well Arden	1560-0500018	Well	871.15	4,767
1560	Sacramento District		Auberry Well	1560-0500020	Well	39,061.70	291,529
1560 1560	Sacramento District Sacramento District	0500022 0500023	Auburn Well	1560-0500022 1560-0500023	Well	20,339.80 305.12	161,066 962
1560	Sacramento District	0500023	Billy Mitchell Well	1560-0500023	Well	243.17	25
1560	Sacramento District	0500040	Briggs Well	1560-0500030	Well	24,328.56	208,459
1560	Sacramento District	0500043	Butterfield Well	1560-0500043	Well	721.56	3,589
1560	Sacramento District	0500045	Caldera Well	1560-0500045	Well	1,452.29	9,215
1560	Sacramento District	0500055	Carriage Well	1560-0500055	Well	23,827.45	180,843
1560	Sacramento District	0500056	Central/Sunrise Well	1560-0500056	Well	3,343.49	23,892
1560	Sacramento District	0500057	Cherbourg Well	1560-0500057	Well	78,132.72	587,942
1560	Sacramento District	0500059	Chipping Well	1560-0500059	Well	42,144.69	597,564
1560	Sacramento District	0500061	College Green Well	1560-0500061	Well	1,583.55	10,144
1560	Sacramento District	0500063	Conrad Well	1560-0500063	Well	417.76	129
1560	Sacramento District	0500064	Cook Riolo Well	1560-0500064	Well	94,521.26	731,833
1560	Sacramento District	0500069	Countryside #1 Well	1560-0500069	Well	84,197.16	664,451
1560	Sacramento District	0500070	Countryside #2 Well	1560-0500070	Well	24,249.44	164,026
1560	Sacramento District	0500071	Countryside Treatment Pl	1560-0500071	Treatment Plant	35,553.49	232,150
1560	Sacramento District	0500072	Countryside Way	1560-0500072	Well	52,153.70	415,503
1560	Sacramento District	0500073	Covered Wagon Well	1560-0500073	Well	1,544.15	9,872
1560	Sacramento District	0500077	Crosswoods Well	1560-0500077	Well	6,727.35	12,334
1560	Sacramento District	0500078	Crowder	1560-0500078	Interconnection	539.92	2,009
1560	Sacramento District	0500082	Daly Well	1560-0500082	Well	29,105.88	195,366
1560	Sacramento District	0500086	Davidson Well	1560-0500086	Well	880.97	5,081
1560	Sacramento District	0500095	Diablo Well	1560-0500095	Well	579.55	2,804
1560	Sacramento District	0500097	Don Julio Well	1560-0500097	Well	30,827.72	190,075
1560	Sacramento District	0500101	Eagle Ridge Well	1560-0500101	Well	2,202.45	15,849
1560	Sacramento District	0500104	Ehine Way Well	1560-0500104	Well	1,021.59	6,233
1560	Sacramento District	0500105	Elsie Well	1560-0500105	Well	374.42	1,043
1560	Sacramento District		Elverta Well	1560-0500106	Well	698.49	3,214
1560	Sacramento District		Fairlake #1 Well	1560-0500110	Well	862.37	3,460
1560 1560	Sacramento District Sacramento District		Fairlake #2 Well Falcon View Well	1560-0500111 1560-0500112	Well Well	21,986.90	170,662
1560	Sacramento District		Folsom Well	1560-0500112	Well	52,123.77 19,457,26	343,726 126,549
1560	Sacramento District		Fort Sutter Well	1560-0500114	Well		3,768
1560	Sacramento District		Foxpark Well	1560-0500117	Well	727.78 28,067.29	249,480
1560	Sacramento District	0500113	Gerber Well	1560-0500112	Well	434,44	1,413
1560	Sacramento District	0500122	Glass Slipperwell	1560-0500122	Well	1,062.55	6,882
1560	Sacramento District	0500124	Gould Well	1560-0500124	Well	15,654.90	116,760
1560	Sacramento District	0500128	Grove #2 Well	1560-0500128	Well	912.33	3,187
1560	Sacramento District	0500130	H Street Well	1560-0500130	Well	663.74	2,040
1560	Sacramento District	0500132	Hemingway Well	1560-0500132	Well	23,037.86	139,825
1560	Sacramento District	0500133	Hemlock Well	1560-0500133	Well	271.46	262
1560	Sacramento District		Jackson Hwy Well	1560-0500145	Well	42,547.95	372,094
1560	Sacramento District		Le Mans Well	1560-0500163	Well	536.98	2,354
1560	Sacramento District	0500165	Linda Sue Well	1560-0500165	Well	11,237,43	70.727
1560	Sacramento District	0500166	Lippi Well	1560-0500166	Well	8,534.02	60,230
1560	Sacramento District	0500184	Malaga Well	1560-0500184	Well	3,637.51	5,469
1560	Sacramento District	0500187	Mars Well	1560-0500187	Well	15,347.56	111,930
1560	Sacramento District	0500188	Mather / Sacramento Coun	1560-0500188	Interconnection	15,697.35	83,880
1560	Sacramento District	0500200	Moonbeam Well	1560-0500200	Well	632.86	2,826
1560	Sacramento District	0500205	North Loop Well	1560-0500205	Well	4,324.30	13,317
1560	Sacramento District	0500209	Nut Plains Well	1560-0500209	Well	23,538.38	164,868
1560	Sacramento District	0500210	Oak Forest Well	1560-0500210	Well	590.19	2,663
1560	Sacramento District	0500215	Oaken Bucket Well	1560-0500215	Well	3,884.39	31,003
1560	Sacramento District	0500225	Palmerson Well	1560-0500225	Well	37,130.29	221,656
1560	Sacramento District	0500228	Parkside Treatment Plant	1560-0500228	Treatment Plant	88,726.86	628,128
1560	Sacramento District	0500242	Point Reyes Well	1560-0500242	Well	702.71	3,572
1560	Sacramento District	0500244	Power Inn Well	1560-0500244	Well	43,899.78	351,890
1560	Sacramento District	0500245	Prior Way Well	1560-0500245	Well	625.49	3,215
1560	Sacramento District	0500261	Rockhurst Well	1560-0500261	Well	35,618.18	281,641
1560	Sacramento District	0500262	Rockingham Well	1560-0500262	Well	37,761.50	316,948
1560	Sacramento District	0500263	Rogue River Well	1560-0500263	Well	733.42	348
1560	Sacramento District	0500264	Rose Parade Treatment PI	1560-0500264	Treatment Plant	40,432.20	330,382
1560	Sacramento District	0500267	Roseville Rd Well	1560-0500267	Well	11,937.03	70,746
1560	Sacramento District	0500268	Roseville Road Well	1560-0500268	Well	1,607.06	1,673
1560	Sacramento District	0500269	Rushmore Well	1560-0500269	Well	37,429.40	314,912
1560	Sacramento District	0500277	Salmon Falls Well	1560-0500277	Well	240.03	0

						\$	KWH
District #	District Name	Location #	Location Name	Unige Identifier	Service Type	Total Cost	Total Usage
1560	Sacramento District	0500288	Shenandoah Well	1560-0500288	Well	623,71	2,859
1560	Sacramento District	0500291	Sky Parkway Well	1560-0500291	Well	1,022.02	5,895
1560	Sacramento District	0500293	Southgate Well	1560-0500293	Well	2,182.68	13,412
1560	Sacramento District	0500294	Southport Well	1560-0500294	Well	667.68	3,198
1560	Sacramento District	0500300	Stocker Well	1560-0500300	Well	1.317.29	5.108
1560	Sacramento District	0500303	Swansea Well	1560-0500303	Well	29,855.86	249,947
1560	Sacramento District	0500304	Tally Ho #1 Well	1560-0500304	Well	61,300.44	471,344
1560	Sacramento District	0500310	Treelark Well	1560-0500310	Well	763.73	3,683
1560	Sacramento District	0500311	Twin Parks Well	1560-0500311	Well	1.380.94	8,645
1560	Sacramento District	0500312	Twin Trails Well	1560-0500312	Well	17,141,29	113,925
1560	Sacramento District	0500317	Van Maren Well	1560-0500317	Well	47,204,82	383,556
1560	Sacramento District	0500318	Vandenberg Well	1560-0500318	Well	309.44	504
1560	Sacramento District	0500324	Villaview Well	1560-0500324	Well	17.127.60	89.041
1560	Sacramento District	0500326	Vintage 1 Well	1560-0500326	Well	29,781.90	213,584
1560	Sacramento District	0500327	Vintage 3 Well	1560-0500327	Well	22,968.66	182,678
1560	Sacramento District	0500328	Vintage Treatment Plant	1560-0500328	Treatment Plant	103,258.09	796,440
1560	Sacramento District	0500331	Watt Ave Well	1560-0500331	Well	395,36	2,323
1560	Sacramento District	0500334	Well 3 3B Treatment Plan	1560-0500334	Treatment Plant	27,670.08	118,172
1560	Sacramento District	0500334	West La Loma Well	1560-0500334	Well	63,314,22	476,808
1560	Sacramento District	0500339	Westporter Well	1560-0500339	Well	19,988.91	165,285
1560	Sacramento District	0500333	Whitewater Well	1560-0500333	Well	16,248.11	119,617
1560	Sacramento District	0500342	Wilbur 2 Well	1560-0500342	Well	16,647.82	104,295
1560	Sacramento District	0500342	Wildrose Well	1560-0500342	Well	4,292.47	4,082
1560	Sacramento District	0500348	Winchester Well	1560-0500348	Well	35,024.66	293,134
1560	Sacramento District	0500351	Wittkop Well	1560-0500348	Well	764.88	3,921
1560	Sacramento District	0500353	Woodman Well	1560-0500353	Well	37,711.67	247,261
1560	Sacramento District	0500354	Wyda Well	1560-0500354	Well	20,726.15	168,809
1560	Sacramento District	0503354	Laurel Oaks Well	1560-050334	Well	723.91	3,759
1560	Sacramento District	0504006	Isleton Elevated Tank	1560-0504006	Tank	453.47	1,609
1560	Sacramento District	0504057	Folsom Booster Station	1560-0504007	Interconnection	5.545.46	41,415
1560	Sacramento District	0504438	Colonnade Well	1560-0504438	Well	677.53	3,255
1560	Sacramento District	0504456	Lincoln Oaks Tank	1560-0504456	Tank	7,188.00	48,622
1560	Sacramento District	0504493	Dunnigan Well & Pump	1560-0504456	Well	8.761.40	35,909
1560	Sacramento District	0504526	Meadowbrook Well 4	1560-0504526	Well	10.145.69	47.380
1560	Sacramento District	0504739	Walerga Tank & Booster STN	1560-0504739	Booster	15,953.93	61,439
1560	Sacramento District	1004534	pump	1560-0304733	Well	33.899.77	163,664
1560	Sacramento District	1004535	Maple & Fir – 40 HP pump	1560-1004535	Well	203.05	163,664
1560	Sacramento District	1004536	Fir & Maple – Chlorine pump	1560-1004535	Well	101.54	0
1560	Sacramento District	1004537	SW Corner Balsam & Poplar	1560-1004537	Well		154,525
1561	Larkfield District	0500152	Larkfield Water Treatmen		Treatment Plant	29,839.09	
1561	Larkfield District	0500152	Lower Wikiup Tank & Boos	1561-0500152	Booster	35,115.78	168,830
				1561-0500181		7,584.54	32,018
1561	Larkfield District	0500206	North Wikiup Tank & Boos	1561-0500206	Booster	3,555.24	15,596
1561	Larkfield District	0500316	Upper Wikiup Tank & Boos	1561-0500316	Booster	1,422.08	5,774
1561	Larkfield District	0500333	Well 1A	1561-0500333	Well	8,551.08	37,033
1561	Larkfield District	0500335		1561-0500335	Well	27,129.21	108,497
1561	Larkfield District	0500336	Well 5	1561-0500336	Well	6,848.22	28,745
1561	Larkfield District	0504481	Geyserville Merrill Well 1	1561-0504481	Well	5,765.37	23,839
1561	Larkfield District	0504482	Geyserville Chianti Tank	1561-0504482	Tank	200.88	366
1561	Larkfield District	0504483	Geyserville Railroad Ave W	1561-0504483	Well	7,919.93	32,921

California American Water Purchased Water Details All Districts - 2017

						\$	KWH
District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage

End	End						
		Sum				6,837,275.62	45,632,462.65

						\$	KWH
District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1530	San Diego County District	500006	1St & A	1530-500006	Interconnection	277.11	686
1530	San Diego County District	500136	Highland Tank	1530-500136	Tank	594.06	1,852
1530	San Diego County District	500199	Montgomery Tank	1530-500199	Tank	588.73	1,837
1530	San Diego County District	500224	Palm Ave. Flow Meter	1530-500224	Interconnection	136.39	111
1540	Monterey County District	500010	Address Via Malpaso	1540-500010	Booster	404.79	746
1540	Monterey County District	500011	Airway Upper	1540-500011	Tank	303.35	827
1540	Monterey County District	500012	Airways Lower Pp #17	1540-500012	Booster	7,725.19	29,949
1540	Monterey County District	500013	Ambler Park Treatment Pl	1540-500013	Treatment Plant	25,229.22	105,090
1540	Monterey County District	500014	Ambler Park Well #4	1540-500014	Well	7,998.21	34,011
1540	Monterey County District	500015	Ambler Park Well #5	1540-500015	Well	15,416.45	62,153
1540	Monterey County District	500025	Bay Street Wells #1 & #2	1540-500025	Well	23,669.24	123,228
1540	Monterey County District	500026	Begonia Iron Removal Pla	1540-500026	Treatment Plant	2,433.16	10,230
1540	Monterey County District	500027	Begonia Iron Removal Pla	1540-500027	Treatment Plant	133,245.10	685,660
1540	Monterey County District	500028	Berwick Well #7	1540-500028	Well	40,934.92	190,532
1540	Monterey County District	500029	Berwick Well #8	1540-500029	Well	32,072.79	123,981
1540	Monterey County District	500031	Birdrock Standby Pump	1540-500031	Booster	122.98	12
1540	Monterey County District	500032	Bishop #1 Well	1540-500032	Well	14,057.82	60,881
1540	Monterey County District	500033	Bishop #2 Well	1540-500033	Well	24,954.48	109,457
1540	Monterey County District	500035	Boots Rd.	1540-500035	Tank	304.76	293
1540	Monterey County District	500037	Boronda Pp #67	1540-500037	Booster	9,489.80	40,984
1540	Monterey County District	500049	Carmel Valley Ranch	1540-500049	Tank	446,40	1,455
1540	Monterey County District	500050	Carmel Valley Ranch Pp #	1540-500050	Booster	10,536.55	44,862
1542	Monterey Wastewater	500051	Carmel Valley Ranch Wwtp	1540-500051	Waste Water	39,887.42	233,516
1540	Monterey County District	500052	Carmel Way	1540-500052	Booster	255.64	74
1540	Monterey County District	500053	Carmel Woods Pp #8	1540-500053	Booster	12,431.23	54,552
1540	Monterey County District	500054	Carola Pp #71	1540-500054	Booster	4,762.24	20,174
1540	Monterey County District	500060	Chualar Tank	1540-500060	Well/Booster/Tank	21,714.84	95,389
1540	Monterey County District	500065	Corona	1540-500065	Booster	8,161.70	34,135
1540	Monterey County District	500075	Crespi	1540-500075	Booster	1,160.89	3,810
1540	Monterey County District	500076	Crest Reservoir (Conc)	1540-500076	Tank	273.60	695
1540	Monterey County District	500070	Cypress Well	1540-500070	Well	196,166.18	1,276,538
1540	Monterey County District	500081	Cypress Pp #14	1540-500081	Booster	2,373.64	9,567
1540	Monterey County District	500090	Del Mesa Pp #42	1540-500090	Booster	5,478.62	23,086
1540	Monterey County District	500091	Del Monte Test Well	1540-500091	Well	259.03	17
1540	Monterey County District	500092	Del Rey Regulating Stati	1540-500092	Reg Station	393.41	1,276
1540	Monterey County District	500099	Dry Creek	1540-500099	Booster	308.04	239
1540	Monterey County District	500102	Eardley Pp #1	1540-500102	Booster	107,611.73	505,066
1540	Monterey County District	500102	Eddy Road	1540-500102	Booster	1,202.72	
1540	Monterey County District	500108	Encina Pp #54	1540-500108	Booster	1,136.42	4,360 4,208
1540		500116	Forest Lake Tanks	1540-500108	Tank		
1540	Monterey County District	500110	Garzas Well #3	1540-500110	Well	338.30	985
	Monterey County District					5,836.71	26,229
1540	Monterey County District	500121	Garzas Well #4	1540-500121	Well	9,248.21	42,453
1540	Monterey County District	500134	Hidden Hills Treatment P	1540-500134	Treatment Plant	65,804.56	249,488
1540	Monterey County District	500135	High Meadows Pp #45	1540-500135	Booster	9,755.28	41,541
1540	Monterey County District	500137	Highland Pp #47	1540-500137	Booster	2,228.55	8,457
1540	Monterey County District	500138	Hilby Pp #27	1540-500138	Booster	1,726.10	7,856
1542	Monterey Wastewater	500140	Holt Rd Lift Station	1540-500140	Waste Water	2,416.63	9,707
1540	Monterey County District	500143	Huckleberry Pp #23	1540-500143	Booster	5,308.37	20,722
1542	Monterey Wastewater	500156	Las Palmas Lift Station #1	1540-500156	Waste Water	3,603.01	15,223
1542	Monterey Wastewater	500157	Las Palmas Lift Station #2	1540-500157	Waste Water	6,522.51	28,219
1542	Monterey Wastewater	500158	Las Palmas Lift Station #3	1540-500158	Waste Water	3,544.33	14,925
1542	Monterey Wastewater	500159	Las Palmas Lift Station #4	1540-500159	Waste Water	718.28	2,139
1542	Monterey Wastewater	500160	Las Palmas Wastewater Tr	1540-500160	Waste Water	105,647.14	673,844
1540	Monterey County District	500169	Los Laureles Well #3	1540-500169	Well	354.23	505
1540	Monterey County District	500170	Los Laureles Well #5	1540-500170	Well	10,039.74	46,067
1540	Monterey County District	500171	Los Laureles Well #6	1540-500171	Well	8,575.86	31,635
1540	Monterey County District	500172	Los Padres Dam	1540-500172	Dam	929.88	3,156
1540	Monterey County District	500176	Los Tulares Lower Pp #51	1540-500176	Booster	2,550.10	9,692
1540	Monterey County District	500177	Los Tulares Pp #50	<b>1</b> 540-500177	Booster	4,243.87	16,661
1540	Monterey County District	500178	Los Tulares Upper	1540-500178	Booster	2,064.79	8,370
1540	Monterey County District	500180	Lower Tierra Grande	1540-500180	Booster	3,795.25	13,847
1540	Monterey County District	500183	Luzern Well	1540-500183	Well	18,300.61	73,453
1540	Monterey County District	500185	Manor Well	1540-500185	Well	866.50	2,861
1540	Monterey County District	500190	Mercurio Pp #59	1540-500190	Booster	1,064.58	3,731
1540	Monterey County District	500191	Mesa Pp #2A	1540-500191	Booster	53,376.16	224,751
1540	Monterey County District	500192	Meyers Pneumatic Pp #81	1540-500192	Booster	609.79	1,663
1540	Monterey County District	500193	Middle Canyon Upper	1540-500193	Booster	2,088.90	7,405
1540	Monterey County District	500194	Middle Tierra Grande	1540-500194	Booster	1,748.53	6,663
1540	Monterey County District	500204	Munras	1540-500204	Booster	3,615.27	13,911
1540	Monterey County District	500208	Nueve	1540-500208	Booster	7,921.13	30,587
1542	Monterey Wastewater	500211	Oak Hills Wastewater Tre	1540-500211	Waste Water	5,601.09	18,363
-5.0		200-24	and the second of the second o			-,002.00	-0,500

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strict #		Location #		Uniqe Identifier	Service Type	Total Cost	Total Usage
1540	Monterey County District	500220	Ord Grove Ozone Plant	1540-500220	Treatment Plant	201,734.26	1,276,3
1540	Monterey County District	500226	Panetta Well #1	1540-500226	Well	13,793.04	67,2
1540	Monterey County District	500227	Paralta Well	1540-500227	Well	46,490.84	280,0
1542	Monterey Wastewater	500229	Pasadera	1540-500229	Waste Water	7,556.91	33,1
1542	Monterey Wastewater	500230	Pasadera Lift Station #2	1540-500230	Waste Water	4,735.10	20,1
1540	Monterey County District	500231	Pasadera Pump Station	1540-500231	Booster	3,901.08	16,6
1542	Monterey Wastewater	500232	Pasadera Water Treatment	1540-500232	Waste Water	9,313.03	40,0
1542	Monterey Wastewater	500233	Pasadera Wwtp #2	1540-500233	Waste Water	36,287.45	199,0
1540	Monterey County District	500235	Paseo Privado Lower Pp #	1540-500235	Booster	5,356.92	23,0
1540	Monterey County District	500237	Pearce Well	1540-500237	Well	170,563.61	1,059,8
1540	Monterey County District	500239	Pebble Beach Pp 6B	1540-500239	Booster	33,536.76	154,0
1540	Monterey County District	500240	Playa Well #3	1540-500240	Well	16,163.46	72,8
1540	Monterey County District	500241	Plumas Well	1540-500241	Well	28,457.98	137,4
1540	Monterey County District	500246	Quail Meadows	1540-500246	Booster	1,896.65	7,4
1540	Monterey County District	500247	Ragsdale	1540-500247	Treatment Plant	34,850.42	140,:
1540	Monterey County District	500248	Ralph Lane Well	1540-500247	Well	2,305.37	9,
1540							
	Monterey County District	500249	Rancho Blvd Pp #10	1540-500249	Booster	360.03	4 000
1540	Monterey County District	500250	Rancho Canada Well	1540-500250	Well	202,097.55	1,288,
1540	Monterey County District	500251	Rancho Fiesta Pp #61	1540-500251	Booster	3,840.58	15,
1540	Monterey County District	500252	Rancho Fiesta Pp #62	1540-500252	Booster	1,748.19	6,
1540	Monterey County District	500253	Rancho Mar Monte	1540-500253	Booster	1,651.11	6,
1540	Monterey County District	500254	Ridgeway	1540-500254	Booster	3,096.77	12,
1540	Monterey County District	500255	Rimrock Lower Pp #80	1540-500255	Booster	2,125.26	9,
1540	Monterey County District	500256	Rimrock Upper Pp #82	1540-500256	Booster	4,022.06	16,
1540	Monterey County District	500257	Rio Vista Pp #53	1540-500257	Booster	3,756.25	15,
1540	Monterey County District	500259	Robles Well	1540-500259	Well	3,821.87	15.
1540	Monterey County District	500260	Robles Lower	1540-500259	Booster	7,055.61	27,
1540	Monterey County District	500260	Rvan Ranch #9	1540-500260	Well	17.041.35	95.
1540	Monterey County District	500273	Ryan Ranch Tank	1540-500273	Tank	1,984.13	8,
1540	Monterey County District	500274	Ryan Ranch Well #11	1540-500274	Well	346.12	
1540	Monterey County District	500275	Ryan Ranch Well #7	1540-500275	Well	6,972.56	25,
1540	Monterey County District	500278	San Carlos Well #2	1540-500278	Well	2,070.57	1,
1540	Monterey County District	500280	Sand City Brackish Water	1540-500280	Treatment Plant	95,692.84	502,
1540	Monterey County District	500283	Scarlett Well	1540-500283	Well	813.76	2,
1540	Monterey County District	500284	Schulte Well	1540-500284	Well	95,411.31	555,
1540	Monterey County District	500287	Segunda	1540-500287	Booster	63,021.41	277
1540	Monterey County District	500295	Spectacular Bid Pp #75	1540-500295	Booster	2,944.05	12,
1540	Monterey County District	500299	Stirrup	1540-500299	Booster	11,848.02	48,
1540	Monterey County District	500306	Telemetry Water Station	1540-500205	Flow Station	376.62	1,
1540		500308		1540-500307	Booster		
	Monterey County District		Tierra Grande Pp #38			3,944.66	16,
1540	Monterey County District	500308	Tioga Wells #4 & #5	1540-500308	Well	29,787.51	155,
1540	Monterey County District	500309	Toyon Lower Pp #32	1540-500309	Booster	10,594.84	43,
1540	Monterey County District	500313	Upper Estrella D Oro Pne	1540-500313	Booster	1,345.89	5,
1540	Monterey County District	500315	Upper Tierra Grande	1540-500315	Booster	1,568.54	5,
1540	Monterey County District	500321	Via Contenta	1540-500321	Booster	9,745.39	42
1540	Monterey County District	500322	Via Las Encinas	1540-500322	Booster	2,733.13	11
1540	Monterey County District	500323	Viejo Tank	1540-500323	Tank	314.71	
1540	Monterey County District	500329	Viscaino	1540-500329	Booster	502.34	1
1540	Monterey County District	500330	Waldon Lower	1540-500330	Booster	2,811.11	11,
1540	Monterey County District	500350	Withers Pp #12	1540-500350	Booster	16,697.09	69
1540		503447		1540-5033447			
1540	Monterey County District	503580	Del Monte Regulating Sta Mount Devon Tank	1540-503580	Reg Station	21,102.36	84,
	Monterey County District				Tank	338.35	
1540	Monterey County District	504010	Lower Estrello D Oro	1540-504010	Booster	3,090.31	13,
1540	Monterey County District	504015	Ambler Oaks Well	1540-504015	Well	504.20	1,
1540	Monterey County District	504056	Crest Canyon Tank	1540-504056	Tank	186.90	
1540	Monterey County District	504090	Upper Toyon Tank #1	1540-504090	Tank	251.13	
1540	Monterey County District	504130	Garrapata Pump #5	1540-504130	Well	10,281.98	43,
1542	Monterey Wastewater	504176	Spreckels Wastewater Tre	1540-504176	Waste Water	1,567.98	6,
1540	Monterey County District	504874	Hilby Tank	1540-504874	Tank	5,775.93	22
1548	Monterey - Toro	500067	Corte Codollera Pp	1548-500067	Toro-Booster	961.64	3,
1548	Monterey - Toro	500179	Lower Markham Ranch Pp	1548-500179	Toro-Booster	4,166.88	17,
1548	Monterey - Toro	500314	Upper Markham Ranch Pp	1548-500314	Toro-Booster	1.490.80	5,
1548	Monterey - Toro	500332	Well #1 And #2 Highway 6	1548-500332	Toro-Well/Treatment	54,086.71	247,
1550	Los Angeles County District	500008	48Th Street Well	1550-500008	Well	6,515.50	2,
1550	Los Angeles County District	500019	Angeles Mesa Reservoir	1550-500019	Booster	2,468.96	6
1550	Los Angeles County District	500021	Arlington Well	1550-500021	Well	939.94	1,
1550	Los Angeles County District	500024	Bacon Well	1550-500024	Well	5,574.09	4
	Los Angeles County District	500039	Bradbury Tank	1550-500039	Tank	1,236.13	6.
1550							
	Los Angeles County District	500041	Brookridge Booster Stn	1550-500041	Booster	5//42	
1550 1550 1550	Los Angeles County District Los Angeles County District	500041 500042	Brookridge Booster Stn Buena Vista Well	1550-500041 1550-500042	Booster Well	577.93 107,251.75	828.

						\$	KWH
District #		Location #		Uniqe Identifier	Service Type	Total Cost	Total Usage
1550	Los Angeles County District	500079	Crownhaven Well	1550-500079	Well	121,730.24	1,119,96
1550	Los Angeles County District	500083	Danford Reservoir	1550-500083	Booster	60,653.64	503,67
1550	Los Angeles County District	500089	Del Mar Well	1550-500089	Well	127,217.87	1,195,77
1550	Los Angeles County District	500107	Encanto Well	1550-500107	Well	136,203.42	1,163,52
1550	Los Angeles County District	500109	Fair Oaks Reservoir	1550-500109	Irrig Tank	342.86	27
1550	Los Angeles County District	500113	Fish Canyon Well	1550-500113	Well	999.49	1,54
1550	Los Angeles County District	500119	Garth Reservoir	1550-500119	Booster	8,134.40	53,34
1550	Los Angeles County District	500125	Grand Well	1550-500125	Well	14,330.96	122,51
1550	Los Angeles County District	500129	Guess Well	1550-500129	Well	281.24	97
1550	Los Angeles County District	500131	Hall Well	1550-500131	Well	115,986.84	1,068,39
1550	Los Angeles County District	500141	Homeland Reservoir	1550-500141	Tank	462.58	86
1550	Los Angeles County District	500142	Howland Well	1550-500142	Well	61,378.51	514,06
1550	Los Angeles County District	500150	Lamanda Reservoir/Well S	1550-500150	Booster	43,473,20	243,60
1550	Los Angeles County District	500154	Las Lomas Booster	1550-500154	Booster	18,824.61	133,93
1550	Los Angeles County District	500155	Las Lomas Well	1550-500155	Well	41,704.67	244,88
1550	Los Angeles County District	500164	Lemon Irrigation Booster	1550-500164	Irrig Booster	19,348.32	80,19
						104,152.76	
1550	Los Angeles County District	500167	Lombardy Well	1550-500167	Well		989,05
1550	Los Angeles County District	500168	Longden Well/Reservoir	1550-500168	Well	56,109.95	296,39
1550	Los Angeles County District	500186	Mariposa Well	1550-500186	Well	71,709.46	637,25
1550	Los Angeles County District	500196	Mission View Well	1550-500196	Well	518.19	1,18
1550	Los Angeles County District	500198	Monterey Booster	1550-500198	Booster	2,507.30	18,91
1550	Los Angeles County District	500203	Mt. Vernon Reservoir	1550-500203	Booster	9,963.55	84,79
1550	Los Angeles County District	500212	Oak Knoll Circle Well	1550-500212	Well	308.86	1,12
1550	Los Angeles County District	500213	Oak Knoll Reservoir	1550-500213	Booster	55,051.43	252,00
1550	Los Angeles County District	500218	Olympiad Reservoir	1550-500218	Booster	26,095.55	193,99
1550	Los Angeles County District	500221	Oswego Well	1550-500221	Well	6,802.56	
1550	Los Angeles County District	500236	Patton Reservoir/Well	1550-500236	Well	69,088.17	372,30
1550	Los Angeles County District	500258	Roanoke Well	1550-500258	Well	517.61	
1550	Los Angeles County District	500265	Rosemead Well	1550-500265	Well	164,698.35	1,590,21
1550	Los Angeles County District	500282	Santa Fe Well	1550-500282	Well	71,469,06	596.89
1550	Los Angeles County District	500286	Scott Reservoir/ Booster	1550-500286	Booster	69.929.26	625,27
1550	Los Angeles County District	500292	Slauson Avenue Corrosion	1550-500292	Treatment Plant	356.40	31
1550	Los Angeles County District	500296	Spinks Reservoir/Booster	1550-500296	Booster	4,125.08	13.87
1550	Los Angeles County District	500319	Vernon Well #2	1550-500230	Well	708.10	13,07
1550		500320	Vernon Well #3		Well		F2C 40
	Los Angeles County District			1550-500320		81,373.56	526,48
1550	Los Angeles County District	500325	Vineyard Booster Stn	1550-500325	Booster	8,281.90	26,49
1550	Los Angeles County District	500337	West Basin 27 Connection	1550-500337	Interconnection	400.34	61
1550	Los Angeles County District	500347	Wiley Well	1550-500347	Well	60,143.62	540,51
1550	Los Angeles County District	500349	Winston Well	1550-500349	Well	44,778.65	378,71
1550	Los Angeles County District	500352	Woodlyn Lane Reservoir/B	1550-500352	Irrig Booster	8,993.93	17,75
1550	Los Angeles County District	504397	Adams Ranch	1550-504397	Interconnection	517.13	
1550	Los Angeles County District	504922	Duarte Rd. PRV	1550-504922	Reg Station	91.19	6
1551	Ventura County District	500016	American Oaks Booster St	1551-500016	Booster	16,811.40	110,44
1551	Ventura County District	500036	Borchard Road Turnout	1551-500036	Interconnection	347.90	36
1551	Ventura County District	500046	Calle Yucca Turnout	1551-500046	Interconnection	339.80	30
1551	Ventura County District	500087	Deer Ridge Tank/Pump Sta	1551-500087	Booster	13,175.06	53,62
1551	Ventura County District	500088	Deer Valley Booster Stat	1551-500088	Booster	8,194.31	50,67
1551	Ventura County District	500094	Dewey Booster Station	1551-500094	Booster	10,169.50	68,98
1551	Ventura County District	500098	Dos Vientos Booster/Potr	1551-500098	Booster	104,884.05	704,25
1551	Ventura County District	500115	Fordham Booster Station	1551-500115	Booster	314.62	14
1551	Ventura County District	500126	Green Ridge Tank	1551-500126	Tank	339.43	25
1551	Ventura County District	500127	Greenmeadow Booster Stat	1551-500127	Booster	336.53	21
1551	Ventura County District	500139	Hillcrest Drive Booster	1551-500139	Booster	6,241.53	48.08
1551	Ventura County District	500144	Industrial Tanks	1551-500144	Tank	428.09	75
1551	Ventura County District	500146	Janss Booster Station	1551-500146	Booster	6,568.22	41.82
			Janss Tank				
1551	Ventura County District	500147		1551-500147	Tank	346.77	3:
1551	Ventura County District	500149	Kimber Booster Station	1551-500149	Booster	1,361.77	7,9
1551	Ventura County District	500153	Las Flores Turnout	1551-500153	Booster	345.00	34
1551	Ventura County District	500161	Las Posas Booster Statio	1551-500161	Booster	17,964.30	123,6
1551	Ventura County District	500173	Los Robles Booster Stati	1551-500173	Booster	17,761.02	101,50
1551	Ventura County District	500174	Los Robles Tanks	1551-500174	Tank	346.72	3
1551	Ventura County District	500175	Los Robles Turnout	1551-500175	Interconnection	345.49	3
1551	Ventura County District	500189	Mayfield Booster Station	1551-500189	Booster	10,786.05	99,2
1551	Ventura County District	500201	Moorpark Booster Station	1551-500201	Booster	13,303.18	63,1
1551	Ventura County District	500202	Moorpark Reservoir	1551-500202	Tank	612.15	2,1
1551	Ventura County District	500217	Olsen Road Turnout	1551-500217	Interconnection	345.92	3
1551	Ventura County District	500217	Orbis Tank	1551-500217	Tank	342.22	3
1551	Ventura County District	500222	Pace Reservoir	1551-500219	Tank	337.56	25
1551		500222		1551-500222	Tank		30
1551	Ventura County District		Potrero I Reservoir			339.14	30
	Ventura County District	500289	Shopping Center I Reserv	1551-500289	Tank	294.17	
1551	Ventura County District	500290	Shopping Center Ii Reser	1551-500290	Tank	538.76	33

						\$	KWH
District #	District Name	Location #		Uniqe Identifier	Service Type	Total Cost	Total Usage
	Ventura County District	500297	Springwood Booster Stati	1551-500297	Booster	4,753.31	43,54
	Ventura County District	500340	White Stallion Tank	1551-500340	Tank	8,255.62	69,89
	Ventura County District	500344	Wildwood Booster Station	1551-500344	Booster	8,097.05	44,12
	Ventura County District	500345	Wildwood Tank	1551-500345	Tank	2,368.75	15,21
1551 1551	Ventura County District	500346	Wildwood Turnout	1551-500346	Interconnection Tank	346.82	34
1551	Ventura County District	504855	Warwick Pump Station	1551-504855		3,012.59	18,36
	Ventura County District	504709	Gainsborough PRV	1551-504709	Reg Station	290.95	95,64
1560 1560	Sacramento District Sacramento District	500005 500009	14020 Isle View Way A Parkway Booster Statio	1560-500005 1560-500009	Well Interconnection	23,175.05 2,090.00	14,00
	Sacramento District	500009	Andrea #1 Well	1560-500009	Well	8,599.64	9,05
	Sacramento District	500017	Andrea #1 Well	1560-500017	Well	13,447.65	100,14
	Sacramento District	500018	Arden	1560-500010	Well	35,747.44	260,16
	Sacramento District	500020	Auberry Well	1560-500020	Well	22.287.61	181.36
	Sacramento District	500022	Auburn Well	1560-500022	Well	830.54	4,22
	Sacramento District	500023	Billy Mitchell Well	1560-500023	Well	246.64	4,22
	Sacramento District	500040	Briggs Well	1560-500040	Well	14.147.84	88.69
	Sacramento District	500043	Butterfield Well	1560-500040	Well	740.80	3.72
	Sacramento District	500045	Caldera Well	1560-500045	Well	1,525.58	9,99
	Sacramento District	500045	Carriage Well	1560-500045	Well	36,982.28	309.79
	Sacramento District	500056	Central/Sunrise Well	1560-500056	Well	3,472.06	24,84
	Sacramento District	500057	Cherbourg Well	1560-500057	Well	42,568.40	306.21
	Sacramento District	500058	Chettenham Well	1560-500058	Well	588.92	2,72
	Sacramento District	500059	Chipping Well	1560-500059	Well	48,687.41	397,52
	Sacramento District	500055	College Green Well	1560-500061	Well	1,606.96	10,34
1560	Sacramento District	500051	Conrad Well	1560-500063	Well	330.58	10,34
1560	Sacramento District	500064	Cook Riolo Well	1560-500064	Well	96,273.08	771,79
1560	Sacramento District	500069	Countryside #1 Well	1560-500069	Well	86,703.75	689,83
				1560-500069	Well	29,954.67	223.53
	Sacramento District Sacramento District	500070 500071	Countryside #2 Well Countryside Treatment PI	1560-500070	Treatment Plant	37,393.02	252.43
	Sacramento District	500071	Countryside Way	1560-500071	Well	38,609.54	303,56
	Sacramento District	500072	Covered Wagon Well	1560-500072	Well	1,415.97	8,92
	Sacramento District	500073	Crosswoods Well	1560-500077	Well	9,349.86	36,77
	Sacramento District	500077	Crowder	1560-500077	Interconnection	445.10	1,49
	Sacramento District	500078	Daly Well	1560-500078	Well	9,400.28	13,24
		500082	Davidson Well		Well		
	Sacramento District	500095	Diablo Well	1560-500086	Well	1,351.66	8,55
	Sacramento District			1560-500095	Well	570.58	2,52
1560	Sacramento District Sacramento District	500097 500101	Don Julio Well	1560-500097	Well	56,966.99	438,45
			Eagle Ridge Well	1560-500101		1,584.62	10,35
	Sacramento District Sacramento District	500104 500105	Ehine Way Well Elsie Well	1560-500104 1560-500105	Well Well	697.84	3,45
	Sacramento District	500105	Elverta Well	1560-500105	Well	370.63	2,81
	Sacramento District	500106				620.82	
1560			Fairlake #1 Well	1560-500110	Well	1,576.40	10,05
1560	Sacramento District	500111	Fairlake #2 Well	1560-500111	Well	23,475.27	187,26
1560	Sacramento District	500112	Falcon View Well	1560-500112	Well	10,618.79	16,43
1560	Sacramento District	500114	Folsom Well	1560-500114	Well	28,428.39	208,72
1560	Sacramento District	500117	Fort Sutter Well	1560-500117	Well	774.35	4,11
1560	Sacramento District	500118	Foxpark Well	1560-500118	Well	24,110.42	159,29
1560	Sacramento District	500122	Gerber Well	1560-500122	Well	559.17	2,34
1560	Sacramento District	500123	Glass Slipperwell	1560-500123	Well	1,029.60	6,28
1560	Sacramento District	500124	Gould Well	1560-500124	Well	12,777.70	93,4
1560	Sacramento District	500128	Grove #2 Well	1560-500128	Well	1,375.51	5,08
	Sacramento District	500130	H Street Well	1560-500130	Well	743.50	2,29
	Sacramento District	500132	Hemingway Well	1560-500132	Well	25,277.61	160,38
	Sacramento District	500133	Hemlock Well	1560-500133	Well	248.61	
	Sacramento District	500145	Jackson Hwy Well	1560-500145	Well	26,424.91	158,0
	Sacramento District	500163	Le Mans Well	1560-500163	Well	492.13	1,83
	Sacramento District	500165	Linda Sue Well	1560-500165	Well	14,968.97	110,60
	Sacramento District	500166	Lippi Well	1560-500166	Well	3,478.68	13,30
	Sacramento District	500184	Malaga Well	1560-500184	Well	840.19	4,49
	Sacramento District	500187	Mars Well	1560-500187	Well	8,571.71	49,08
	Sacramento District	500188	Mather / Sacramento Coun	1560-500188	Interconnection	13,167.62	52,14
	Sacramento District	500200	Moonbeam Well	1560-500200	Well	799.88	4,15
	Sacramento District	500205	North Loop Well	1560-500205	Well	446.79	1,58
	Sacramento District	500209	Nut Plains Well	1560-500209	Well	62,315.21	517,6
	Sacramento District	500210	Oak Forest Well	1560-500210	Well	11,116.21	78,3
	Sacramento District	500214	Oakberry	1560-500214	Well	133.23	
1560	Sacramento District	500215	Oaken Bucket Well	1560-500215	Well	4,284.79	35,9
	Commence District	500225	Palmerson Well	1560-500225	Well	61,595.86	502,66
	Sacramento District	300223		1300 300223		0-,555.00	302,0
	Sacramento District	500228	Parkside Treatment Plant	1560-500228	Treatment Plant	100,575.84	755,06
1560							

						\$	KWH
District #	District Name	Location #	Location Name	Unige Identifier	Service Type	Total Cost	Total Usage
1560	Sacramento District	500245	Prior Way Well	1560-500245	Well	627.74	2,98
1560	Sacramento District	500261	Rockhurst Well	1560-500261	Well	22,320.63	158,06
1560	Sacramento District	500262	Rockingham Well	1560-500262	Well	37,948.97	320,83
1560	Sacramento District	500263	Rogue River Well	1560-500263	Well	17,568.13	125,44
1560	Sacramento District	500264	Rose Parade Treatment Pl	1560-500264	Treatment Plant	27,547.35	167,40
1560	Sacramento District	500267	Roseville Rd Well	1560-500267	Well	5,350.65	41,18
1560	Sacramento District	500268	Roseville Road Well	1560-500268	Well	54,641.29	449,90
1560	Sacramento District	500269	Rushmore Well	1560-500269	Well	26,359.59	216,09
1560	Sacramento District	500277	Salmon Falls Well	1560-500277	Well	147.01	4.
1560	Sacramento District	500281	Sandlewood Intertie	1560-500281	Interconnection	133.23	
1560	Sacramento District	500285	Scotland Well	1560-500285	Well	135.80	2.
1560	Sacramento District	500288	Shenandoah Well	1560-500288	Well	628.57	2,83
1560	Sacramento District	500291	Sky Parkway Well	1560-500291	Well	23,443.50	171,40
1560	Sacramento District	500293	Southgate Well	1560-500293	Well	14,030.74	98,37
1560	Sacramento District	500294	Southport Well	1560-500294	Well	2,465.79	19,63
1560	Sacramento District	500300	Stocker Well	1560-500300	Well	11,937.33	75,05
1560	Sacramento District	500302	Sutters Gold Well	1560-500302	Well	354.04	1,66
1560	Sacramento District	500303	Swansea Well	1560-500303	Well	28,656.46	238,21
1560	Sacramento District	500304	Tally Ho #1 Well	1560-500304	Well	37,883.86	205,01
1560	Sacramento District	500310	Treelark Well	1560-500310	Well	765.46	3,89
1560	Sacramento District	500311	Twin Parks Well	1560-500311	Well	1,339.36	8,33
1560	Sacramento District	500312	Twin Trails Well	1560-500312	Well	5,032.64	1,45
1560	Sacramento District	500317	Van Maren Well	1560-500317	Well	62,237.82	527,24
1560	Sacramento District	500318	Vandenberg Well	1560-500318	Well	291.95	38
1560	Sacramento District	500324	Villaview Well	1560-500324	Well	11,986.34	64,59
1560	Sacramento District	500326	Vintage 1 Well	1560-500326	Well	42,858.43	354,99
1560	Sacramento District	500327	Vintage 3 Well	1560-500327	Well	24,260.86	194,83
1560 1560	Sacramento District	500328 500331	Vintage Treatment Plant	1560-500328	Treatment Plant Well	106,581.75 18.389.53	821,02 119.37
	Sacramento District		Watt Ave Well	1560-500331			
1560	Sacramento District	500334	Well 3 3B Treatment Plan	1560-500334	Treatment Plant	30,135.42	126,399 559,10
1560 1560	Sacramento District Sacramento District	500338 500339	West La Loma Well Westporter Well	1560-500338	Well Well	66,378.35	
1560	Sacramento District	500339	Whitewater Well	1560-500339 1560-500341	Well	20,638.33	155,79
1560	Sacramento District	500341	Wilbur 2 Well	1560-500341	Well	17,098.96	134,70
1560	Sacramento District	500342	Wildrose Well	1560-500342	Well	18,325.85 1,541.14	120,45 9,75
1560	Sacramento District	500348	Winchester Well	1560-500348	Well	33,462.44	279,97
1560	Sacramento District	500348	Wittkop Well	1560-500351	Well	419.09	2,9,97
1560	Sacramento District	500351	Woodman Well	1560-500351	Well	19,367.43	70,30
1560	Sacramento District	500354	Wyda Well	1560-500354	Well	20,487.93	165,45
1560	Sacramento District	503452	Laurel Oaks Well	1560-503354	Well	627.86	2,99
1560	Sacramento District	503616	- Montezuma Well	1560-503616	Well	179.52	2,99
1560	Sacramento District	504006	Isleton Elevated Tank	1560-504006	Tank	464.63	1,58
1560	Sacramento District	504000	Folsom Booster Station	1560-504057	Interconnection	10,769.78	80,87
1560	Sacramento District	504324	Walerga Tank & Booster STN	1560-504324	Tank	18,031.85	52.13
1560	Sacramento District	504324	Colonnade Well	1560-504324	Well	660.45	3.10
1560	Sacramento District	504456	Lincoln Oaks Tank	1560-504456	Tank	13,658.38	87.60
1560	Sacramento District	504481	Geyserville Merrill Well 1	1560-504481	Well	6,210.11	24,13
1560	Sacramento District	504482	Geyserville Chianti Tank	1560-504482	Tank	204.55	35
1560	Sacramento District	504483	Geyserville Railroad Ave W	1560-504483	Well	9,531.14	38,23
1560	Sacramento District	504493	Dunnigan Well & Pump	1560-504493	Well	8,620.36	36.12
1560	Sacramento District	504526	Meadowbrook Well 4	1560-504526	Well	41,669.56	288,34
1560	Sacramento District	004534	2272 Meadowbrook 40HP-pump	1560-004534	Well	40,427,50	178.17
1560	Sacramento District	004535	& Fir – 40 HP pump	1560-004535	Well	241.83	170,17
1560	Sacramento District	004536	Maple – Chlorine pump	1560-004536	Well	121.18	
1560	Sacramento District	004537	rner Balsam & Poplar	1560-004537	Well	4,747.18	15,58
1561	Larkfield District	500152	Larkfield Water Treatmen	1561-500152	Treatment Plant	32,687.15	137,54
1561	Larkfield District	500132	Lower Wikiup Tank & Boos	1561-500181	Booster	4,771.44	18,63
1561	Larkfield District	500206	North Wikiup Tank & Boos	1561-500206	Booster	3,650,85	15.65
1561	Larkfield District	500206	Upper Wikiup Tank & Boos	1561-500206	Booster	256.84	15,65
1561	Larkfield District	500316	Well 1A	1561-500316	Well	6,986.01	33,05
1561	Larkfield District	500335	Well 3A	1561-500335	Well	28,100,76	134.29

California American Water Purchased Water Details All Districts - 2018

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District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Tota Cost	Total Usage

End	End	End	End	End	End	End	End
		Cross				6 901 055 09	4E 030 000 63
		Sum				6,801,065.08	45,020,900.63

						\$	KWH
istrict #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1530	San Diego County District	0500006	1St & A	1530-0500006	Interconnection	256.90	5-
1530	San Diego County District	0500136		1530-0500136	Tank	561.20	1,7
1530	San Diego County District	0500199	Montgomery Tank	1530-0500199	Tank	559.59	1,7
1530	San Diego County District	0500133	Palm Ave. Flow Meter	1530-0500133	Interconnection	154.55	1
1540	Monterey County District	0500010	Address Via Malpaso	1540-0500010	Booster	424.96	7.
1540	Monterey County District	0500011	Airway Upper	1540-0500011	Tank	239.78	5
1540	Monterey County District	0500012	Airways Lower Pp #17	1540-0500012	Booster	4,628.03	17,2
1540	Monterey County District	0500013	Ambler Park Treatment Pl	1540-0500013	Treatment Plant	26,549.89	104,0
1540	Monterey County District	0500014	Ambler Park Well #4	1540-0500014	Well	21,378.78	88,8
1540	Monterey County District	0500015	Ambler Park Well #5	1540-0500015	Well	402.60	6
1540	Monterey County District	0500025	Bay Street Wells #1 & #2	1540-0500025	Well	18,936.70	73,8
1540	Monterey County District	0500026	Begonia Iron Removal Pla	1540-0500026	Treatment Plant	15,268.38	69,6
1540	Monterey County District	0500027	Begonia Iron Removal Pla	1540-0500027	Treatment Plant	157,278.13	929,5
1540	Monterey County District	0500028	Berwick Well #7	1540-0500028	Well	71,748.30	387,3
1540	Monterey County District	0500029	Berwick Well #8	1540-0500029	Well	65,380.10	370,5
1540	Monterey County District	0500031	Birdrock Standby Pump	1540-0500031	Booster	123.45	
1540	Monterey County District	0500032	Bishop #1 Well	1540-0500032	Well	14,984.85	60,8
1540	Monterey County District	0500033	Bishop #2 Well	1540-0500033	Well	23,898.03	99,8
1540		0500035					
	Monterey County District		Boots Rd.	1540-0500035	Tank	318.54	2
1540	Monterey County District	0500037	Boronda Pp #67	1540-0500037	Booster	10,559.79	43,4
1540	Monterey County District	0500047	Carmel Knolls	1540-0500047	Booster	30,492.37	124,0
1540	Monterey County District	0500048	Carmel Valley Filter Pla	1540-0500048	Booster	4,026.83	9,5
1540	Monterey County District	0500049	Carmel Valley Ranch	1540-0500049	Tank	463.83	1,4
1540	Monterey County District	0500050	Carmel Valley Ranch Pp #	1540-0500050	Booster	10,818.59	43,7
1542	Monterey Wastewater	0500051	Carmel Valley Ranch Wwtp	1542-0500051	Waste Water	37,556.95	209,5
1540	Monterey County District	0500052	Carmel Way	1540-0500052	Booster	249.03	200,0
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1540	Monterey County District	0500053	Carmel Woods Pp #8	1540-0500053	Booster	12,431.70	52,4
1540	Monterey County District	0500054	Carola Pp #71	1540-0500054	Booster	4,831.60	19,3
1540	Monterey County District	0500060	Chualar Tank	1540-0500060	Well/Booster/Tank	22,368.87	93,5
1540	Monterey County District	0500065	Corona	1540-0500065	Booster	9,468.81	35,4
1540	Monterey County District	0500067	Corte Codollera Pp	1540-0500067	Toro-Booster	1,384.09	4,9
1540	Monterey County District	0500075	Crespi	1540-0500075	Booster	2,434.60	8,1
1540	Monterey County District	0500076	Crest Reservoir (Conc)	1540-0500076	Tank	302.31	7
1540	Monterey County District	0500070	Cypress Well	1540-0500070	Well	174,409.33	
							1,134,9
1540	Monterey County District	0500081	Cypress Pp #14	1540-0500081	Booster	2,472.42	9,4
1540	Monterey County District	0500090	Del Mesa Pp #42	1540-0500090	Booster	\$,784.18	23,2
1540	Monterey County District	0500091	Del Monte Test Well	1540-0500091	Well	268.81	
1540	Monterey County District	0500092	Del Rey Regulating Stati	1540-0500092	Reg Station	291.17	7
1540	Monterey County District	0500099	Dry Creek	1540-0500099	Booster	336.09	3
1540	Monterey County District	0500102	Eardley Pp #1	1540-0500102	Booster	121,836.15	497,1
1540	Monterey County District	0500102	Eddy Road	1540-0500102	Booster		
						1,117.31	3,7
1540	Monterey County District	0500108	Encina Pp #54	1540-0500108	Booster	1,171.50	4,1
1540	Monterey County District	0500116	Forest Lake Tanks	1540-0500116	Tank	469.71	1,5
1540	Monterey County District	0500120	Garzas Well #3	1540-0500120	Well	20,221.32	88,4
1540	Monterey County District	0500121	Garzas Well #4	1540-0500121	Well	25,883.13	111,6
1540	Monterey County District	0500134	Hidden Hills Treatment P	1540-0500134	Treatment Plant	70,960.23	264,7
1540	Monterey County District	0500135	High Meadows Pp #45	1540-0500135	Booster	10,649.24	40,2
1540	Monterey County District	0500137	Highland Pp #47	1540-0500137	Booster	810.72	2,3
1542	Monterey Wastewater	0500140	Holt Rd Lift Station	1542-0500140	Waste Water	2,559.44	9,8
1540	Monterey County District	0500143	Huckleberry Pp #23	1540-0500143	Booster	5,846.70	21,5
1542	Monterey Wastewater	0500156	Las Palmas Lift Station #1	1542-0500156	Waste Water	3,869.69	15,5
1542	Monterey Wastewater	0500157	Las Palmas Lift Station #2	1542-0500157	Waste Water	4,945.32	20,1
1542	Monterey Wastewater	0500158	Las Palmas Lift Station #3	1542-0500158	Waste Water	3,670.97	14,7
1542	Monterey Wastewater	0500159	Las Palmas Lift Station #4	1542-0500159	Waste Water	780.48	2,2
1542	Monterey Wastewater	0500160	Las Palmas Wastewater Tr	1542-0500160	Waste Water	102,780.35	631,7
1540	Monterey County District	0500169	Los Laureles Well # 3	1540-0500169	Well	330.37	4
1540	Monterey County District	0500170	Los Laureles Well #5	1540-0500170	Well	16,648.41	73,3
1540	Monterey County District	0500171	Los Laureles Well #6	1540-0500171	Well	40,948.94	230,7
1540	Monterey County District	0500172	Los Padres Dam	1540-0500172	Dam	873.17	2.7
1540	Monterey County District	0500176	Los Tulares Lower Pp #51	1540-0500176	Booster	3,173.26	10,6
1540	Monterey County District	0500177	Los Tulares Pp #50	1540-0500177	Booster	5,480.13	19,3
1540	Monterey County District	0500177	Los Tulares Upper	1540-0500177	Booster	2,424.47	8,9
1540	Monterey County District	0500179	Lower Markham Ranch Pp	1540-0500179	Toro-Booster	4,203.87	16,9
1540	Monterey County District	0500180	Lower Tierra Grande	1540-0500180	Booster	4,095.84	14,8
1540	Monterey County District	0500183	Luzern Well	1540-0500183	Well	9,701.70	37,1
1540	Monterey County District	0500190	Mercurio Pp #59	1540-0500190	Booster	1,028.53	3,3
1540	Monterey County District	0500191	Mesa Pp #2A	1540-0500191	Booster	42,233.21	144,6
1540	Monterey County District	0500191	Meyers Pneumatic Pp #81	1540-0500191	Booster	642.18	1,6
1540 1540							
	Monterey County District	0500193	Middle Canyon Upper	1540-0500193	Booster	2,243.23	7,3
1540 1540	Monterey County District Monterey County District	0500194 0500204	Middle Tierra Grande Munras	1540-0500194 1540-0500204	Booster Booster	1,657.96 5,134.07	5,9 19,4

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District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1540	Monterey County District	0500208	Nueve	1540-0500208	Booster	8,379.83	31,639
1542	Monterey Wastewater	0500211	Oak Hills Wastewater Tre	1542-0500211	Waste Water	4,892.63	12,753
1540	Monterey County District	0500220	Ord Grove Ozone Plant	1540-0500220	Treatment Plant	203,149.53	1,219,345
1540	Monterey County District	0500226	Panetta Well #1	1540-0500226	Well	40,779.84	167,547
1540	Monterey County District	0500227	Paralta Well	1540-0500227	Well	81,758.26	363,603
1542	Monterey Wastewater	0500229	Pasadera	1542-0500229	Waste Water	8,685.28	35,762
1542	Monterey Wastewater	0500230	Pasadera Lift Station #2	1542-0500230	Waste Water	5,544.82	22,635
1540	Monterey County District	0500231	Pasadera Pump Station	1540-0500231	Booster	4,753.61	18,915
1542	Monterey Wastewater	0500232	Pasadera Water Treatment	1542-0500232	Waste Water	12,413.62	50,698
1542 1540	Monterey Wastewater Monterey County District	0500233 0500235	Pasadera Wwtp #2 Paseo Privado Lower Pp #	1542-0500233 1540-0500235	Waste Water Booster	39,058.93 5,254.85	203,981 21,472
1540	Monterey County District	0500235	Pearce Well	1540-0500235	Well	121,622.62	810,891
1540	Monterey County District	0500237	Pebble Beach Pp 6B	1540-0500237	Booster	34,733.26	160,839
1540	Monterey County District	0500239	Playa Well #3	1540-0500239	Well	21,883.61	94,173
1540	Monterey County District	0500241	Plumas Well	1540-0500240	Well	28,195.39	100,828
1540	Monterey County District	0500246	Quail Meadows	1540-0500241	Booster	1,985.35	7,384
1540	Monterey County District	0500247	Ragsdale	1540-0500247	Treatment Plant	39,087.95	148,736
1540	Monterey County District	0500248	Ralph Lane Well	1540-0500248	Well	2,471.55	9,533
1540	Monterey County District	0500249	Rancho Blvd Pp #10	1540-0500249	Booster	348.52	434
1540	Monterey County District	0500250	Rancho Canada Well	1540-0500250	Well	192,432.05	1,225,275
1540	Monterey County District	0500251	Rancho Fiesta Pp #61	1540-0500251	Booster	2,639.84	9,083
1540	Monterey County District	0500252	Rancho Fiesta Pp #62	1540-0500252	Booster	1,336.27	4,425
1540	Monterey County District	0500253	Rancho Mar Monte	1540-0500253	Booster	1,913.24	6,608
1540	Monterey County District	0500254	Ridgeway	1540-0500254	Booster	3.215.34	12,453
1540	Monterey County District	0500256	Rimrock Upper Pp #82	1540-0500256	Booster	4,059.92	15,976
1540	Monterey County District	0500257	Rio Vista Pp #53	1540-0500257	Booster	3,771.44	13,968
1540	Monterey County District	0500259	Robles Well	1540-0500259	Well	1,143.23	3,582
1540	Monterey County District	0500260	Robles Lower	1540-0500260	Booster	7,361.22	27,063
1540	Monterey County District	0500272	Ryan Ranch #9	1540-0500272	Well	17,354.72	89,637
1540	Monterey County District	0500273	Ryan Ranch Tank	1540-0500273	Tank	1,370.58	5,374
1540	Monterey County District	0500274	Ryan Ranch Well #11	1540-0500274	Well	370.91	397
1540	Monterey County District	0500275	Ryan Ranch Well #7	1540-0500275	Well	14,801.83	59,104
1540	Monterey County District	0500278	San Carlos Well #2	1540-0500278	Well	2,048.85	1,803
1540	Monterey County District	0500280	Sand City Brackish Water	1540-0500280	Treatment Plant	67,887.04	294,173
1540	Monterey County District	0500284	Schulte Well	1540-0500284	Well	100,289.82	603,642
1540	Monterey County District	0500287	Segunda	1540-0500287	Booster	69,883.88	235,871
1540	Monterey County District	0500295	Spectacular Bid Pp #75	1540-0500295	Booster	3,469.98	13,646
1540	Monterey County District	0500299	Stirrup	1540-0500299	Booster	12,072.85	46,494
1540	Monterey County District	0500306	Telemetry Water Station	1540-0500306	Flow Station	455.33	1,442
1540	Monterey County District	0500307	Tierra Grande Pp #38	1540-0500307	Booster	3,557.20	14,060
1540	Monterey County District	0500308	Tioga Wells #4 & # 5	1540-0500308	Well	19,971.04	83,721
1540	Monterey County District	0500309	Toyon Lower Pp #32	1540-0500309	Booster	8,255.28	32,311
1540	Monterey County District	0500313	Upper Estrella D Oro Pne	1540-0500313	Booster	1,180.01	4,045
1540	Monterey County District	0500314	Upper Markham Ranch Pp	1540-0500314	Toro-Booster	1,389.63	4,932
1540	Monterey County District	0500315	Upper Tierra Grande	1540-0500315	Booster	1,643.71	6,029
1540 1540	Monterey County District Monterey County District	0500321 0500322	Via Contenta Via Las Encinas	1540-0500321 1540-0500322	Booster Booster	10,539.27	43,340
1540	Monterey County District	0500322	Viejo Tank	1540-0500323	Tank	2,877.08 325.88	11,251 818
1540	Monterey County District	0500323	Viejo rank Viscaino	1540-0500323	Booster	920.37	2,961
1540	Monterey County District	0500329	Waldon Lower	1540-0500329	Booster	2,836.26	10,973
1540	Monterey County District	0500330	Well #1 And #2 Highway 6	1540-0500330	Toro-Well/Treatment	55,361.56	258,335
1540	Monterey County District	0500350	Withers Pp #12	1540-0500352	Booster	17,727.39	70,210
1540	Monterey County District	05033447	Del Monte Regulating Sta	1540-05033447	Reg Station	22,810.83	85,359
1540	Monterey County District	0503580	Mount Devon Tank	1540-0503580	Tank	331.20	917
1540	Monterey County District	0504010	Lower Estrello D Oro	1540-0504010	Booster	3,127.08	12,307
1540	Monterey County District	0504015	Ambler Oaks Well	1540-0504015	Well	424.20	1,117
1540	Monterey County District	0504056	Crest Canyon Tank	1540-0504015	Tank	183.69	278
1540	Monterey County District	0504090	Upper Toyon Tank #1	1540-0504090	Tank	331.16	861
1540	Monterey County District	0504127	Garrapata Pump #5	1540-0504127	Well	8,354.49	32,687
1542	Monterey Wastewater	0504176	Spreckels Wastewater Tre	1542-0504176	Waste Water	1,623.70	5,983
1540	Monterey County District	0504695	Hilby ASR Pump Station	1540-0504695	Booster	135,005.01	38,680
1540	Monterey County District	0504874	Hilby Tank	1540-0504874	Tank	67,786.54	300,461
1540	Monterey County District	0504974		1540-0504974	Well	5,109.39	2,364
1550	Los Angeles County District	0500008	48Th Street Well	1550-0500008	Well	7,284.28	2,120
1550	Los Angeles County District	0500019	Angeles Mesa Reservoir	1550-0500019	Booster	1,770.19	2,441
1550	Los Angeles County District	0500021	Arlington Well	1550-0500021	Well	963.61	1,240
1550	Los Angeles County District	0500074	Crenshaw Well	1550-0500074	Well	43,021.75	216,480
1550	Los Angeles County District	0500119	Garth Reservoir	1550-0500119	Booster	9,661.48	60,681
1550	Los Angeles County District	0500141		1550-0500141	Tank	304.20	790
1550	Los Angeles County District	0500203	Mt. Vernon Reservoir	1550-0500203	Booster	11,016.51	90,422
1550	Los Angeles County District	0500218	Olympiad Reservoir	1550-0500218	Booster	22,759.40	176,548
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istrict #	District Name	Location #	Location Name	Unige Identifier	Service Type	\$ Tota Cost	KWH Total Usage
1550	Los Angeles County District	0500292	Slauson Avenue Corrosion	1550-0500292	Treatment Plant	210.06	32
1550	Los Angeles County District	0500319	Vernon Well #2	1550-0500319	Well	733.76	639,92
1550 1550	Los Angeles County District Los Angeles County District	0500320 0500337	Vernon Well #3 West Basin 27 Connection	1550-0500320 1550-0500337	Well Interconnection	111,476.50 184.20	639,92
1550	Los Angeles County District	0500024	Bacon Well	1550-0500024	Well	4,408.89	3,93
1550	Los Angeles County District	0500039	Bradbury Tank	1550-0500039	Tank	1,025.07	6,63
1550	Los Angeles County District	0500041	Brookridge Booster Stn	1550-0500041	Booster	553.45	93
1550	Los Angeles County District	0500042	Buena Vista Well	1550-0500042	Well	51,339.48	226,70
1550	Los Angeles County District	0500079	Crownhaven Well	1550-0500079	Well	138,242.81	1,390,07
1550	Los Angeles County District	0500107	Encanto Well	1550-0500107	Well	42,409.14	183,29
1550	Los Angeles County District	0500113	Fish Canyon Well	1550-0500113	Well	818.90	1,51
1550	Los Angeles County District	0500154	Las Lomas Booster	1550-0500154	Booster	11,624.22	68,83
1550	Los Angeles County District	0500155	Las Lomas Well	1550-0500155	Well	33,082.24	184,0
1550	Los Angeles County District	0500164	Lemon Irrigation Booster	1550-0500164	Irrig Booster	31,612.29	204,0
1550	Los Angeles County District	0500282	Santa Fe Well	1550-0500282	Well	63,421.00	428,7
1550	Los Angeles County District	0500286	Scott Reservoir/ Booster	1550-0500286	Booster	63,006.92	604,2
1550	Los Angeles County District	0500296	Spinks Reservoir/Booster	1550-0500296	Booster	4,043.96	15,48
1550	Los Angeles County District	0500325	Vineyard Booster Stn	1550-0500325	Booster	5,670.77	10,0
1550	Los Angeles County District	0500347	Wiley Well	1550-0500347	Well	110,968.52	1,097,2
1550	Los Angeles County District	0504922	Duarte Rd. PRV	1550-0504922	Reg Station	198.66	2
1550	Los Angeles County District	0500083	Danford Reservoir	1550-0500083	Booster	38,956.38	325,6
1550	Los Angeles County District	0500089	Del Mar Well	1550-0500089	Well	128,876.49	1.232.6
1550	Los Angeles County District	0500125	Grand Well	1550-0500125	Well	5,172.40	28,2
1550	Los Angeles County District	0500129	Guess Well	1550-0500129	Well	295.26	20,2
1550		0500123	Hall Well	1550-0500129	Well	104,248.40	996,8
1550	Los Angeles County District	0500131	Howland Well	1550-0500151	Well	64.344.72	550.9
	Los Angeles County District					0.,0	,-
1550	Los Angeles County District	0500150	Lamanda Reservoir/Well S	1550-0500150	Booster	57,638.97	316,6
1550	Los Angeles County District	0500167	Lombardy Well	1550-0500167	Well	89,866.03	868,3
1550	Los Angeles County District	0500168	Longden Well/Reservoir	1550-0500168	Well	44,949.14	286,7
1550	Los Angeles County District	0500186	Mariposa Well	1550-0500186	Well	53,857.30	515,5
1550	Los Angeles County District	0500196	Mission View Well	1550-0500196	Well	15,706.63	7,6
1550	Los Angeles County District	0500198	Monterey Booster	1550-0500198	Booster	2,396.98	18,3
1550	Los Angeles County District	0500212	Oak Knoll Circle Well	1550-0500212	Well	1,837.50	1,1
1550	Los Angeles County District	0500213	Oak Knoll Reservoir	1550-0500213	Booster	56,712.29	241,6
1550	Los Angeles County District	0500221	Oswego Well	1550-0500221	Well	8,201.92	
1550	Los Angeles County District	0500236	Patton Reservoir/Well	1550-0500236	Well	62,544.59	307,7
1550	Los Angeles County District	0500258	Roanoke Well	1550-0500258	Well	484.52	
1550	Los Angeles County District	0500265	Rosemead Well	1550-0500265	Well	155,009.59	1,591,1
1550	Los Angeles County District	0500349	Winston Well	1550-0500349	Well	33,322.81	269,0
1550	Los Angeles County District	0504397	Adams Ranch	1550-0504397	Interconnection	486.29	
1551	Ventura County District	0500016	American Oaks Booster St	1551-0500016	Booster	13,197.34	97,6
1551	Ventura County District	0500036	Borchard Road Turnout	1551-0500036	Interconnection	213.57	3.,5
1551	Ventura County District	0500036	Calle Yucca Turnout	1551-0500046	Interconnection	199.27	2
1551	Ventura County District	0500040	Deer Ridge Tank/Pump Sta	1551-0500040	Rooster		39,8
1551	Ventura County District	0500088		1551-0500087	Booster	9,151.66	
1551		0500088	Deer Valley Booster Stat			7,068.33	43,6
	Ventura County District		Dewey Booster Station	1551-0500094	Booster	9,817.97	79,1
1551	Ventura County District	0500098	Dos Vientos Booster/Potr	1551-0500098	Booster	93,138.85	638,3
1551	Ventura County District	0500115	Fordham Booster Station	1551-0500115	Booster	161.86	
1551	Ventura County District	0500126	Green Ridge Tank	1551-0500126	Tank	215.17	3
1551	Ventura County District	0500127	Greenmeadow Booster Stat	1551-0500127	Booster	222.86	4
1551	Ventura County District	0500139	Hillcrest Drive Booster	1551-0500139	Booster	6,034.34	47,€
1551	Ventura County District	0500144	Industrial Tanks	1551-0500144	Tank	258.24	9
1551	Ventura County District	0500146	Janss Booster Station	1551-0500146	Booster	5,779.89	38,4
1551	Ventura County District	0500147	Janss Tank	1551-0500147	Tank	223.64	3
1551	Ventura County District	0500149	Kimber Booster Station	1551-0500149	Booster	657.51	3,7
1551	Ventura County District	0500153	Las Flores Turnout	1551-0500153	Booster	216.89	3
1551	Ventura County District	0500161	Las Posas Booster Statio	1551-0500161	Booster	18,144.71	143,1
1551	Ventura County District	0500173	Los Robles Booster Stati	1551-0500173	Booster	15,570.16	95,1
1551	Ventura County District	0500174	Los Robles Tanks	1551-0500174	Tank	213.10	3
1551	Ventura County District	0500174	Los Robles Turnout	1551-050017	Interconnection	201.26	
1551	Ventura County District	0500175	Mayfield Booster Station	1551-0500175	Booster	12,064.05	113,3
1551	Ventura County District	0500201	Moorpark Booster Station	1551-0500189	Booster	14,265.38	77,4
1551	Ventura County District	0500201	Moorpark Reservoir	1551-0500201	Tank	446.65	1,7
1551	Ventura County District	0500217	Olsen Road Turnout	1551-0500217	Interconnection	200.38	3
1551	Ventura County District	0500219	Orbis Tank	1551-0500219	Tank	207.25	3
1551	Ventura County District	0500222	Pace Reservoir	1551-0500222	Tank	256.98	5
1551	Ventura County District	0500243	Potrero I Reservoir	1551-0500243	Tank	210.88	3
1551	Ventura County District	0500289	Shopping Center I Reserv	1551-0500289	Tank	149.11	
1551	Ventura County District	0500290	Shopping Center li Reser	1551-0500290	Tank	519.78	3
	Ventura County District	0500297	Springwood Booster Statí	1551-0500297	Booster	4,602.84	42,8
1551 1551	ventura county district	0500237	opinion booster stati	IDOI GOOGLO	Doobto	1,002.01	42,0

District of	Discharge No.	1	I tamaster North	Unige Identifier	Comies T	\$ Total Cost	KWH
District #		Location #			Service Type		Total Usage
1551	Ventura County District	0500344	Wildwood Booster Station	1551-0500344	Booster	7,131.57	40,794
1551	Ventura County District	0500345	Wildwood Tank	1551-0500345	Tank	2,206.73	14,997
1551	Ventura County District	0500346	Wildwood Turnout	1551-0500346	Interconnection	219.89	355
1551	Ventura County District	0504439	Borchaerd Road Pump Statio	1551-0504439	Booster	419.20	0
1551	Ventura County District	0504719	Cortez	1551-0504719	Well/Booster/Tank	11,959.82	61,271
1551	Ventura County District	0504855	Warwick Pump Station	1551-0504855	Tank	4,835.73	26,868
1551	Ventura County District	1504709	Gainsborough PRV	1551-1504709	Reg Station	177.18	252
1560	Sacramento District	0500005	14020 Isle View Way	1560-0500005	Well	25,028.90	96,781
1560	Sacramento District	0500009	A Parkway Booster Statio	1560-0500009	Interconnection	11,688.75	83,458
1560	Sacramento District	0500017	Andrea #1 Well	1560-0500017	Well	3,879.17	30,524
1560	Sacramento District	0500018	Andrea #2 Well	1560-0500018	Well	1,101.38	6,594
1560	Sacramento District	0500020	Arden	1560-0500020	Well	35,990.10	260,162
1560	Sacramento District	0500022	Auberry Well	1560-0500022	Well	18.555.42	142,430
1560	Sacramento District	0500023	Auburn Well	1560-0500023	Well	852.67	4,559
1560	Sacramento District	0500030	Billy Mitchell Well	1560-0500030	Well	248.09	24
1560	Sacramento District	0500040	Briggs Well	1560-0500040	Well	8.460.39	32,209
1560	Sacramento District	0500043	Butterfield Well	1560-0500043	Well	749.55	3.720
1560	Sacramento District	0500045	Caldera Well	1560-0500045	Well	1.424.52	9,109
1560	Sacramento District	0500055	Carriage Well	1560-0500055	Well	4,369.17	849
1560	Sacramento District	0500056	Central/Sunrise Well	1560-0500056	Well	3,591.93	25,132
1560	Sacramento District	0500057	Cherbourg Well	1560-0500057	Well	56,449.05	436,216
1560	Sacramento District	0500059	Chipping Well	1560-0500059	Well	48,981.42	401,890
1560	Sacramento District	0500061	College Green Well	1560-0500061	Well	1,658.05	10,569
1560	Sacramento District	0500063	Conrad Well	1560-0500063	Well	162.60	C
1560	Sacramento District	0500064	Cook Riolo Well	1560-0500064	Well	74,212.72	553,647
1560	Sacramento District	0500069	Countryside #1 Well	1560-0500069	Well	64.090.80	468,075
1560	Sacramento District	0500070	Countryside #2 Well	1560-0500070	Well	11,024.93	40,364
1560	Sacramento District	0500071	Countryside Treatment Pl	1560-0500071	Treatment Plant	32,588.90	203,849
1560	Sacramento District	0500071	Countryside Way	1560-0500071	Well	64,166.83	522,543
1560		0500072			Well		
	Sacramento District		Covered Wagon Well	1560-0500073		5,226.92	39,667
1560	Sacramento District	0500077	Crosswoods Well	1560-0500077	Well	5,353.61	5,800
1560	Sacramento District	0500078	Crowder	1560-0500078	Interconnection	520.24	1,778
1560	Sacramento District	0500082	Daly Well	1560-0500082	Well	19,862.11	142,546
1560	Sacramento District	0500086	Davidson Well	1560-0500086	Well	638.94	3,039
1560	Sacramento District	0500095	Diablo Well	1560-0500095	Well	582.31	2,571
1560	Sacramento District	0500097	Don Julio Well	1560-0500097	Well	47,205.75	341,964
1560	Sacramento District	0500101	Eagle Ridge Well	1560-0500101	Well	835.55	4,542
1560	Sacramento District	0500104	Ehine Way Well	1560-0500104	Well	748.30	3,722
1560	Sacramento District	0500105	Elsie Well	1560-0500105	Well	370.93	966
1560	Sacramento District	0500106	Elverta Well	1560-0500106	Well	627.32	2,816
1560	Sacramento District	0500110	Fairlake #1 Well	1560-0500110	Well	789.03	4,007
	Sacramento District				Well		
1560		0500111	Fairlake #2 Well	1560-0500111		22,864.00	178,963
1560	Sacramento District	0500112	Falcon View Well	1560-0500112	Well	12,515.40	92,213
1560	Sacramento District	0500114	Folsom Well	1560-0500114	Well	25,246.16	173,338
1560	Sacramento District	0500117	Fort Sutter Well	1560-0500117	Well	829.00	4,571
1560	Sacramento District	0500118	Foxpark Well	1560-0500118	Well	23,007.35	148,715
1560	Sacramento District	0500122	Gerber Well	1560-0500122	Well	538.95	2,161
1560	Sacramento District	0500123	Glass Slipperwell	1560-0500123	Well	13,169.32	99,384
1560	Sacramento District	0500124	Gould Well	1560-0500124	Well	8,392.85	49,704
1560	Sacramento District	0500128	Grove #2 Well	1560-0500128	Well	1,472.30	5,197
1560	Sacramento District	0500130	H Street Well	1560-0500130	Well	745.29	2,127
1560	Sacramento District	0500132	Hemingway Well	1560-0500132	Well	30,581.65	200,315
1560	Sacramento District	0500132	Hemlock Well	1560-0500132	Well	252.96	200,313
1560	Sacramento District	0500133	Jackson Hwy Well	1560-0500133	Well	45.892.26	
							335,953
1560	Sacramento District	0500163	Le Mans Well	1560-0500163	Well	527.78	2,076
1560	Sacramento District	0500165	Linda Sue Well	1560-0500165	Well	15,466.24	115,28
1560	Sacramento District	0500166	Lippi Well	1560-0500166	Well	785.77	4,15
1560	Sacramento District	0500184	Malaga Well	1560-0500184	Well	885.70	4,756
1560	Sacramento District	0500187	Mars Well	1560-0500187	Well	14,579.38	109,269
1560	Sacramento District	0500188	Mather / Sacramento Coun	1560-0500188	Interconnection	17,335.21	69,28
1560	Sacramento District	0500200	Moonbeam Well	1560-0500200	Well	8,807,44	63,452
1560	Sacramento District	0500205	North Loop Well	1560-0500205	Well	15,602.42	123,598
1560	Sacramento District	0500209	Nut Plains Well	1560-0500209	Well	58,582.55	477.137
1560	Sacramento District	0500209	Oak Forest Well	1560-0500209	Well	27.801.51	203.73
1560	Sacramento District	0500215	Oaken Bucket Well	1560-0500215	Well	11,162.73	57,87
1560	Sacramento District	0500225	Palmerson Well	1560-0500225	Well	63,858.17	509,888
1560	Sacramento District	0500228	Parkside Treatment Plant	1560-0500228	Treatment Plant	117,841.87	900,737
1560	Sacramento District	0500242	Point Reyes Well	1560-0500242	Well	695.63	3,455
1560	Sacramento District	0500244	Power Inn Well	1560-0500244	Well	37,219.56	275,122
1560	Sacramento District	0500245	Prior Way Well	1560-0500245	Well	715.43	3,639
1560	Sacramento District	0500261	Rockhurst Well	1560-0500261	Well	34.987.80	275,668
2000		0000201		1000 0000101	******	5 1,507 .00	275,00

		1000		11 500		\$	KWH
istrict#	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1560	Sacramento District	0500262	Rockingham Well	1560-0500262	Well	4,974.87	10,2
1560	Sacramento District	0500263	Rogue River Well	1560-0500263	Well	5,708.47	17,5
1560	Sacramento District	0500264	Rose Parade Treatment PI	1560-0500264	Treatment Plant	43,460.63	315,3
1560	Sacramento District	0500267	Roseville Rd Well	1560-0500267	Well	5,604.32	43,2
1560	Sacramento District	0500268	Roseville Road Well	1560-0500268	Well	36,523.46	287,3
1560	Sacramento District	0500269	Rushmore Well	1560-0500269	Well	30,648.29	252,5
1560	Sacramento District	0500277	Salmon Falls Well	1560-0500277	Well	598.39	3,9
1560	Sacramento District	0500288	Shenandoah Well	1560-0500288	Well	653.30	3,0
1560	Sacramento District	0500291	Sky Parkway Well	1560-0500291	Well	7,345.48	18,
1560	Sacramento District	0500293	Southgate Well	1560-0500293	Well	10,285.08	65,
1560	Sacramento District	0500294	Southport Well	1560-0500294	Well	515.28	2,0
1560	Sacramento District	0500300	Stocker Well	1560-0500300	Well	3,067.13	4,0
1560	Sacramento District	0500303	Swansea Well	1560-0500303	Well	25,360.51	203,6
1560	Sacramento District	0500304	Tally Ho #1 Well	1560-0500304	Well	12,188.74	24,
1560	Sacramento District	0500310	Treelark Well	1560-0500310	Well	714.44	3,4
1560	Sacramento District	0500311	Twin Parks Well	1560-0500311	Well	1,340.43	8,
1560	Sacramento District	0500312	Twin Trails Well	1560-0500312	Well	19.411.07	141.
1560	Sacramento District	0500317	Van Maren Well	1560-0500317	Well	63,197.82	529,
1560	Sacramento District	0500318	Vandenberg Well	1560-0500318	Well	290.98	
1560	Sacramento District	0500324	Villaview Well	1560-0500324	Well	8,665.39	33,
1560	Sacramento District	0500326	Vintage 1 Well	1560-0500326	Well	36,176.22	288,
1560	Sacramento District	0500327	Vintage 3 Well	1560-0500327	Well	32,752.73	275,
1560	Sacramento District	0500328	Vintage Treatment Plant	1560-0500328	Treatment Plant	143,414.31	1,172,
1560	Sacramento District	0500331	Watt Ave Well	1560-0500331	Well	35,122.17	248,
1560	Sacramento District	0500331	Well 3 3B Treatment Plan	1560-0500331	Treatment Plant	37,250.94	145,
1560	Sacramento District	0500334	West La Loma Well	1560-0500334	Well	41,541.82	314,
1560	Sacramento District	0500338	Westporter Well	1560-0500339	Well	15,029.69	101,
1560	Sacramento District	0500333	Whitewater Well	1560-0500341	Well	8.156.64	46.
1560	Sacramento District	0500341	Wilbur 2 Well	1560-0500341	Well	21,176.56	143,
1560	Sacramento District	0500342	Wildrose Well	1560-0500342	Well	12,079.68	75,
1560	Sacramento District	0500348	Winchester Well	1560-0500343	Well	35,145.64	292,
1560	Sacramento District	0500353	Woodman Well	1560-0500348	Well	41,715.82	280,
1560	Sacramento District	0500353	Wyda Well	1560-0500354	Well	18,315.17	143,
1560	Sacramento District	05033452	Laurel Oaks Well	1560-050334	Well	843.62	143,
1560	Sacramento District	0504006	Isleton Elevated Tank	1560-0504006	Tank	480.25	
1560	Sacramento District	0504057	Folsom Booster Station	1560-0504005	Interconnection	14,544.95	1,
1560			Colonnade Well		Well		104,
	Sacramento District	0504438		1560-0504438		690.19	3,
1560	Sacramento District	0504456	Lincoln Oaks Tank	1560-0504456	Tank	9,384.14	34,
1560	Sacramento District	0504493	Dunnigan Well & Pump	1560-0504493	Well	9,447.06	37,
1560	Sacramento District	0504526	Meadowbrook Well 4	1560-0504526	Well	48,117.70	352,
1560	Sacramento District	0504739	Walerga Tank & Booster STN	1560-0504739	Booster	18,944.29	61,
1560	Sacramento District	1004534	pump	1560-1004534	Well	15,704.49	51,
1560	Sacramento District	1004535	Maple & Fir – 40 HP pump	1560-1004535	Well	249.69	
1560	Sacramento District	1004536	Fir & Maple – Chlorine pump	1560-1004536	Well	119.93	
1560	Sacramento District	1004537	SW Corner Balsam & Poplar	1560-1004537	Well	22,202.15	92,
1561	Larkfield District	0500152	Larkfield Water Treatmen	1561-0500152	Treatment Plant	37,661.61	161,
1561	Larkfield District	0500181	Lower Wikiup Tank & Boos	1561-0500181	Booster	5,629.44	21,
1561	Larkfield District	0500206	North Wikiup Tank & Boos	1561-0500206	Booster	3,572.82	14,
1561	Larkfield District	0500316	Upper Wikiup Tank & Boos	1561-0500316	Booster	1,672.38	6,
1561	Larkfield District	0500333	Well 1A	1561-0500333	Well	7,481.43	32,
1561	Larkfield District	0500335	Well 3A	1561-0500335	Well	22,784.48	100,
1561	Larkfield District	0500336	Well 5	1561-0500336	Well	7,136.57	30,
1561	Larkfield District	0504481	Geyserville Merrill Well 1	1561-0504481	Well	6,046.33	22,
1561	Larkfield District	0504482	Geyserville Chianti Tank	1561-0504482	Tank	198.00	
1561	Larkfield District	0504483	Geyserville Railroad Ave W	1561-0504483	Well	10,716.08	41,

#### California American Water Purchased Water Details All Districts - 2019

						\$	KWH	
District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage	ĺ

End	End						
		Sum				6,934,075.80	43,439,209.33

Black of	I Butter	Tr	1	I bluden by the T	Complex T	\$	KWH
District #	District Name	0500006	Location Name 1St & A	Uniqe Identifier 1530-0500006	Service Type Interconnection	Total Cost 284.09	Total Usage
1530 1530	San Diego County District San Diego County District		Highland Tank	1530-0500006	Tank	284.09 567.70	1.73
1530	San Diego County District	0500199	Montgomery Tank	1530-0500199	Tank	566.33	1,72
1530	San Diego County District	0500224	Palm Ave. Flow Meter	1530-0500224	Interconnection	155.43	1,72
1540	Monterey County District	05000224	Address Via Malpaso	1540-0500010	Booster	485.97	75
1540	Monterey County District	0500011	Airway Upper	1540-0500011	Tank	199.68	32
1540	Monterey County District	0500011	Airways Lower Pp #17	1540-0500011	Booster	5,513.79	18,93
1540	Monterey County District	0500012	Ambier Park Treatment Pl	1540-0500012	Treatment Plant	29,978.64	108,85
1540	Monterey County District	0500013	Ambler Park Well #4	1540-0500014	Well	25,944.35	101,99
1540	Monterey County District	0500015	Ambler Park Well #5	1540-0500015	Well	301.41	101,01
1540	Monterey County District	0500025	Bay Street Wells #1 & #2	1540-0500025	Well	32,237.14	155,64
1540	Monterey County District	0500026	Begonia Iron Removal Pla	1540-0500026	Treatment Plant	26,492.96	113,52
1540	Monterey County District	0500027	Begonia Iron Removal Pla	1540-0500027	Treatment Plant	115,526.63	567,10
1540	Monterey County District	0500028	Berwick Well #7	1540-0500028	Well	26,866.45	113,53
1540	Monterey County District	0500029	Berwick Well #8	1540-0500029	Well	49,246.20	188,80
1540	Monterey County District	0500031	Birdrock Standby Pump	1540-0500031	Booster	122.94	
1540	Monterey County District	0500032	Bishop #1 Well	1540-0500032	Well	23,181.77	91.33
1540	Monterey County District	0500033	Bishop #2 Well	1540-0500033	Well	22,308.44	87,1
1540	Monterey County District	0500035	Boots Rd.	1540-0500035	Tank	373.24	2
1540	Monterey County District	0500037	Boronda Pp #67	1540-0500037	Booster	12,820.77	49,8
1540	Monterey County District	0500047	Carmel Knolls	1540-0500047	Booster	38,315.22	157,1
1540	Monterey County District	0500048	Carmel Valley Filter Pla	1540-0500048	Booster	4,298.50	9,8
1540	Monterey County District	0500049	Carmel Valley Ranch	1540-0500049	Tank	274.04	6
1540	Monterey County District	0500050	Carmel Valley Ranch Pp #	1540-0500050	Booster	10,272.55	39,3
1542	Monterey Wastewater	0500051	Carmel Valley Ranch Wwtp	1542-0500051	Waste Water	38,472.38	197,6
1540	Monterey County District	0500052	Carmel Way	1540-0500052	Booster	479.29	6
1540	Monterey County District	0500053	Carmel Woods Pp #8	1540-0500053	Booster	15,055.58	61,2
1540	Monterey County District	0500054	Carola Pp #71	1540-0500054	Booster	5,380.49	20,4
1540	Monterey County District	0500060	Chualar Tank	1540-0500060	Well/Booster/Tank	22,195.39	87,2
1540	Monterey County District	0500065	Corona	1540-0500065	Booster	11,093.70	39,2
1540	Monterey County District	0500067	Corte Codollera Pp	1540-0500067	Toro-Booster	1,463.74	5,0
1540	Monterey County District	0500075	Crespi	1540-0500075	Booster	4,745.50	17,9
1540	Monterey County District	0500076	Crest Reservoir (Conc)	1540-0500076	Tank	329.58	8
1540	Monterey County District	0500080	Cypress Well	1540-0500080	Well	199,501.65	1,195,4
1540	Monterey County District	0500081	Cypress Pp #14	1540-0500081	Booster	2,668.05	9,5
1540	Monterey County District	0500090	Del Mesa Pp #42	1540-0500090	Booster	7,072.07	26,8
1540	Monterey County District	0500091	Del Monte Test Well	1540-0500091	Well	321.22	
1540	Monterey County District	0500092	Del Rey Regulating Stati	1540-0500092	Reg Station	314.85	7
1540	Monterey County District	0500099	Dry Creek	1540-0500099	Booster	375.31	2
1540	Monterey County District	0500102	Eardley Pp #1	1540-0500102	Booster	121,730.64	555,4
1540	Monterey County District	0500103	Eddy Road	1540-0500103	Booster	1,416.58	4,7
1540	Monterey County District	0500108	Encina Pp #54	1540-0500108	Booster	1,282.40	4,2
1540	Monterey County District	0500116	Forest Lake Tanks	1540-0500116	Tank	452.14	1,3
1540	Monterey County District	0500120	Garzas Well #3	1540-0500120	Well	12,058.04	49,0
1540	Monterey County District	0500121	Garzas Well #4	1540-0500121	Well	20,376.54	82,9
1540	Monterey County District	0500134	Hidden Hills Treatment P	1540-0500134	Treatment Plant	76,461.95	271,7
1540	Monterey County District	0500135	High Meadows Pp #45	1540-0500135	Booster	12,732.10	44,5
1540	Monterey County District	0500137	Highland Pp #47	1540-0500137	Booster	895.98	2,3
1542	Monterey Wastewater	0500140	Holt Rd Lift Station	1542-0500140	Waste Water	2,811.86	10,1
1540	Monterey County District	0500143	Huckleberry Pp #23	1540-0500143	Booster	6,570.02	22,4
1542	Monterey Wastewater	0500156	Las Palmas Lift Station #1	1542-0500156	Waste Water	4,156.97	15,5
1542	Monterey Wastewater	0500157	Las Palmas Lift Station #2	1542-0500157	Waste Water	5,993.05	22,3
1542	Monterey Wastewater	0500158	Las Palmas Lift Station #3	1542-0500158	Waste Water	4,548.63	16,7
1542	Monterey Wastewater	0500159	Las Palmas Lift Station #4	1542-0500159	Waste Water	882.39	2,3
1542	Monterey Wastewater	0500160	Las Palmas Wastewater Tr	1542-0500160	Waste Water	108,726.39	627,1
1540	Monterey County District	0500169	Los Laureles Well # 3	1540-0500169	Well	422.90	5
1540	Monterey County District		Los Laureles Well #5	1540-0500170	Well	8,163.03	30,1
1540	Monterey County District	0500171	Los Laureles Well #6	1540-0500171	Well	28,986.34	148,5
1540 1540	Monterey County District Monterey County District	0500172 0500176	Los Padres Dam Los Tulares Lower Pp #51	1540-0500172 1540-0500176	Dam Booster	774.51	1,9 11,7
1540 1540		0500176		1540-0500176 1540-0500177	Booster	3,748.56	
1540 1540	Monterey County District		Los Tulares Pp #50			7,014.86	23,5
	Monterey County District		Los Tulares Upper	1540-0500178	Booster	2,646.93	9,1
1540	Monterey County District	0500179	Lower Markham Ranch Pp	1540-0500179	Toro-Booster	2,986.05	11,6
1540	Monterey County District		Lower Tierra Grande	1540-0500180	Booster	5,462.57	17,1
1540	Monterey County District		Luzern Well	1540-0500183	Well	55,128.26	204,7
1540	Monterey County District		Mercurio Pp #59	1540-0500190	Booster	1,064.11	3,0
1540	Monterey County District		Mesa Pp #2A	1540-0500191	Booster	38,285.81	119,2
1540	Monterey County District	0500192	Meyers Pneumatic Pp #81	1540-0500192	Booster	791.03	1,9
1540	Monterey County District	0500193	Middle Canyon Upper	1540-0500193	Booster	2,440.18	7,5
1540	Monterey County District		Middle Tierra Grande	1540-0500194 1540-0500204	Booster	2,002.93	6,7
1540	Monterey County District	0500204			Booster	21,304.65	78,0

Dietalat 1	# District Name	In-ution "	Location Name	Unige Identifier	Candice Time	\$ Total Cost	KWH Total Usage
District #		Location #			Service Type		
1540	Monterey County District	0500208	Nueve	1540-0500208	Booster	9,826.13	34,39
1542	Monterey Wastewater	0500211	Oak Hills Wastewater Tre	1542-0500211	Waste Water	14,369.76	50,50
1540	Monterey County District	0500220	Ord Grove Ozone Plant	1540-0500220	Treatment Plant	135,394.50	708,8
1540	Monterey County District	0500226	Panetta Well #1	1540-0500226	Well	33,324.06	130,04
1540	Monterey County District	0500227	Paralta Well	1540-0500227	Well	150,843.80	760,79
1542	Monterey Wastewater	0500229	Pasadera	1542-0500229	Waste Water	9,551.07	36,03
1542	Monterey Wastewater	0500230	Pasadera Lift Station #2	1542-0500230	Waste Water	6,019.95	23,0
1540	Monterey County District	0500231	Pasadera Pump Station	1540-0500231	Booster	5,040.32	18,8
1542	Monterey Wastewater	0500232	Pasadera Water Treatment	1542-0500232	Waste Water	9,915.87	38,63
1542	Monterey Wastewater	0500233	Pasadera Wwtp #2	1542-0500233	Waste Water	41,033.30	202,25
1540	Monterey County District	0500235	Paseo Privado Lower Pp #	1540-0500235	Booster	3,877.22	14,45
1540	Monterey County District	0500237	Pearce Well	1540-0500237	Well	161,913.17	936.03
1540	Monterey County District	0500238	Pebble Beach Pp #6	1540-0500238	Booster	1,217,43	2,98
1540	Monterey County District	0500239	Pebble Beach Pp 6B	1540-0500239	Booster	39,387.13	169,7
1540	Monterey County District	0500240	Plava Well #3	1540-0500240	Well	21,722,41	89.6
1540	Monterey County District	0500241	Plumas Well	1540-0500240	Well	18.542.75	66.1
1540	Monterey County District	0500241	Quail Meadows	1540-0500241	Booster	2,224.73	7,74
1540	Monterey County District	0500240	Ragsdale	1540-0500240	Treatment Plant	24.692.24	92.0
1540	Monterey County District	0500248	Ralph Lane Well	1540-0500248	Well	2,837.45	10,2
1540	Monterey County District	0500249	Rancho Blvd Pp #10	1540-0500249	Booster	467.39	6
1540	Monterey County District	0500250	Rancho Canada Well	1540-0500250	Well	133,967.95	810,2
1540	Monterey County District	0500251	Rancho Fiesta Pp #61	1540-0500251	Booster	2,375.94	7,4
1540	Monterey County District	0500252	Rancho Fiesta Pp #62	1540-0500252	Booster	1,475.90	4,8
1540	Monterey County District	0500253	Rancho Mar Monte	1540-0500253	Booster	2,238.51	7,2
1540	Monterey County District	0500254	Ridgeway	1540-0500254	Booster	3,807.05	13,9
1540	Monterey County District	0500256	Rimrock Upper Pp #82	1540-0500256	Booster	4.819.31	17,6
1540	Monterey County District	0500257	Rio Vista Pp #53	1540-0500257	Booster	4,976.32	16,1
1540	Monterey County District	0500259	Robles Well	1540-0500259	Well	1,233.18	3,4
1540	Monterey County District	0500260	Robles Lower	1540-0500259	Booster	7,954.24	27,4
1540	Monterey County District	0500272	Ryan Ranch #9	1540-0500272	Well	26,007.75	135,8
1540	Monterey County District	0500272	Ryan Ranch Tank	1540-0500272	Tank	2,538.66	9,7
1540		0500273		1540-0500273	Well		
	Monterey County District		Ryan Ranch Well #11		*****	427.55	3
1540	Monterey County District	0500275	Ryan Ranch Well #7	1540-0500275	Well	17,993.04	71,1
1540	Monterey County District	0500278	San Carlos Well #2	1540-0500278	Well	2,171.19	2,1
1540	Monterey County District	0500280	Sand City Brackish Water	1540-0500280	Treatment Plant	103,971.32	513,0
1540	Monterey County District	0500284	Schulte Well	1540-0500284	Well	84,462.94	465,8
1540	Monterey County District	0500287	Segunda	1540-0500287	Booster	82,931.58	268,5
1540	Monterey County District	0500295	Spectacular Bid Pp #75	1540-0500295	Booster	4,158.63	15,4
1540	Monterey County District	0500299	Stirrup	1540-0500299	Booster	14,201.61	50,6
1540	Monterey County District	0500306	Telemetry Water Station	1540-0500306	Flow Station	286.07	6
1540	Monterey County District	0500307	Tierra Grande Pp #38	1540-0500307	Booster	4,238.58	15,5
1540	Monterey County District	0500308	Tioga Wells #4 & # 5	1540-0500308	Well	28,904.70	136,5
1540	Monterey County District	0500309	Toyon Lower Pp #32	1540-0500308	Booster	9,598.12	34,9
1540		0500303		1540-0500303			
	Monterey County District		Upper Estrella D Oro Pne		Booster	1,656.53	5,5
1540	Monterey County District	0500314	Upper Markham Ranch Pp	1540-0500314	Toro-Booster	1,408.50	4,6
1540	Monterey County District	0500315	Upper Tierra Grande	1540-0500315	Booster	1,715.35	5,7
1540	Monterey County District	0500321		1540-0500321	Booster	11,391.85	44,3
1540	Monterey County District	0500322	Via Las Encinas	1540-0500322	Booster	3,076.36	11,1
1540	Monterey County District	0500323	Viejo Tank	1540-0500323	Tank	337.85	8
1540	Monterey County District	0500329	Viscaino	1540-0500329	Booster	907.52	2,4
1540	Monterey County District	0500330	Waldon Lower	1540-0500330	Booster	3,107.48	11,2
1540	Monterey County District	0500332	Well #1 And #2 Highway 6	1540-0500332	Toro-Well/Treatment	51,243.61	218,2
1540	Monterey County District	0500350	Withers Pp #12	1540-0500350	Booster	17,816.22	67,3
1540	Monterey County District	0503447	Del Monte Regulating Sta	1540-0503447	Reg Station	25,478.71	90,6
1540	Monterey County District	0503580	Mount Devon Tank	1540-0503580	Tank	300.41	70,0
1540		0504010	Lower Estrello D Oro	1540-0504010	Booster		
	Monterey County District					3,868.99	15,3
	Monterey County District	0504015	Ambler Oaks Well	1540-0504015	Well	557.74	1,8
		0504056	Crest Canyon Tank	1540-0504056	Tank	182.07	2
1540	Monterey County District		Upper Toyon Tank #1	1540-0504090	Tank	395.99	1,1
1540 1540	Monterey County District	0504090			Well	2 222 25	28,0
1540 1540 1540 1540	Monterey County District Monterey County District	0504127	Garrapata Pump #5	1540-0504127		7,377.75	
1540 1540	Monterey County District		Garrapata Pump #5 Spreckels Wastewater Tre	1540-0504127 1542-0504176	Waste Water	1,739.80	
1540 1540 1540	Monterey County District Monterey County District	0504127					6,1
1540 1540 1540 1542 1540	Monterey County District Monterey County District Monterey Wastewater Monterey County District	0504127 0504176 0504695	Spreckels Wastewater Tre Hilby ASR Pump Station	1542-0504 <b>1</b> 76 1540-0504695	Waste Water Booster	1,739.80 163,798.05	6,1 70,4
1540 1540 1540 1542 1540 1540	Monterey County District Monterey County District Monterey Wastewater Monterey County District Monterey County District	0504127 0504176 0504695 0504874	Spreckels Wastewater Tre Hilby ASR Pump Station Hilby Tank	1542-0504176 1540-0504695 1540-0504874	Waste Water Booster Tank	1,739.80 163,798.05 32,884.98	6,1 70,4 139,0
1540 1540 1540 1542 1540 1540 1540	Monterey County District Monterey County District Monterey Wastewater Monterey County District Monterey County District Monterey County District	0504127 0504176 0504695 0504874 0504974	Spreckels Wastewater Tre Hilby ASR Pump Station Hilby Tank Test Well Site	1542-0504176 1540-0504695 1540-0504874 1540-0504974	Waste Water Booster Tank Well	1,739.80 163,798.05 32,884.98 12,203.81	6,1 70,4 139,0 5,7
1540 1540 1540 1542 1540 1540 1540 1550	Monterey County District Monterey County District Monterey Wastewater Monterey County District Monterey County District Monterey County District Los Angeles County District	0504127 0504176 0504695 0504874 0504974 0500008	Spreckels Wastewater Tre Hilby ASR Pump Station Hilby Tank Test Well Site 48Th Street Well	1542-0504176 1540-0504695 1540-0504874 1540-0504974 1550-0500008	Waste Water Booster Tank Well Well	1,739.80 163,798.05 32,884.98 12,203.81 14,173.70	6,1 70,4 139,0 5,7 2,4
1540 1540 1540 1542 1540 1540 1540 1550 1550	Monterey County District Monterey County District Monterey Wastewater Monterey County District Monterey County District Monterey County District Los Angeles County District Los Angeles County District	0504127 0504176 0504695 0504874 0504974 0500008 0500019	Spreckels Wastewater Tre Hilby ASR Pump Station Hilby Tank Test Well Site 48Th Street Well Angeles Mesa Reservoir	1542-0504176 1540-0504695 1540-0504874 1540-0504974 1550-0500008 1550-0500019	Waste Water Booster Tank Well Well Booster	1,739.80 163,798.05 32,884.98 12,203.81 14,173.70 964.64	6,1 70,4 139,0 5,7 2,4 2,4
1540 1540 1540 1542 1540 1540 1540 1550 1550	Monterey County District Monterey County District Monterey Wastewater Monterey County District Monterey County District Monterey County District Los Angeles County District Los Angeles County District Los Angeles County District	0504127 0504176 0504695 0504874 0504974 0500008 0500019	Spreckels Wastewater Tre Hilby ASR Pump Station Hilby Tank Test Well Site 48Th Street Well Angeles Mesa Reservoir Arlington Well	1542-0504176 1540-0504695 1540-0504874 1540-0504974 1550-0500008 1550-0500019 1550-0500021	Waste Water Booster Tank Well Well Booster Well	1,739.80 163,798.05 32,884.98 12,203.81 14,173.70 964.64 5,270.85	6,1 70,4 139,0 5,7 2,4 2,4
1540 1540 1540 1542 1540 1540 1540 1550 1550 1550	Monterey County District Monterey County District Monterey Wastewater Monterey County District Monterey County District Monterey County District Los Angeles County District	0504127 0504176 0504695 0504874 0504974 0500008 0500019 0500021 0500074	Spreckels Wastewater Tre Hilby ASR Pump Station Hilby Tank Test Well Site 48Th Street Well Angeles Mesa Reservoir Arlington Well Crenshaw Well	1542-0504176 1540-0504695 1540-0504874 1540-0504974 1550-0500008 1550-0500019 1550-0500021 1550-0500074	Waste Water Booster Tank Well Well Booster Well Well	1,739.80 163,798.05 32,884.98 12,203.81 14,173.70 964.64 5,270.85 81,443.80	6,1 70,4 139,0 5,7 2,4 2,4 1,1 400,7
1540 1540 1540 1542 1540 1540 1550 1550 1550 1550	Monterey County District Monterey County District Monterey Wastewater Monterey County District Monterey County District Monterey County District Los Angeles County District	0504127 0504176 0504695 0504874 0504974 0500008 0500019 0500021 0500074 0500119	Spreckels Wastewater Tre Hilby ASR Pump Station Hilby Tank Test Well Site 48Th Street Well Angeles Mesa Reservoir Arlington Well Crenshaw Well Garth Reservoir	1542-0504176 1540-0504695 1540-0504874 1540-0504974 1550-0500019 1550-0500011 1550-0500021 1550-0500019	Waste Water Booster Tank Well Well Booster Well Well Booster	1,739.80 163,798.05 32,884.98 12,203.81 14,173.70 964.64 5,270.85 81,443.80 15,807.16	6,1 70,4 139,0 5,7 2,4 2,4 1,1 400,7 84,5
1540 1540 1540 1542 1540 1540 1540 1550 1550 1550	Monterey County District Monterey County District Monterey Wastewater Monterey County District Monterey County District Monterey County District Los Angeles County District	0504127 0504176 0504695 0504874 0504974 0500008 0500019 0500021 0500074	Spreckels Wastewater Tre Hilby ASR Pump Station Hilby Tank Test Well Site 48Th Street Well Angeles Mesa Reservoir Arlington Well Crenshaw Well Garth Reservoir	1542-0504176 1540-0504695 1540-0504874 1540-0504974 1550-0500008 1550-0500019 1550-0500021 1550-0500074	Waste Water Booster Tank Well Well Booster Well Well	1,739.80 163,798.05 32,884.98 12,203.81 14,173.70 964.64 5,270.85 81,443.80	6,1 70,4 139,0 5,7 2,4 2,4 1,1 400,7

						\$	KWH
istrict #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1550	Los Angeles County District	0500218		1550-0500218	Booster	29,003.65	187,70
1550	Los Angeles County District	0500292	Slauson Avenue Corrosion	1550-0500292	Treatment Plant	212.70	38
1550	Los Angeles County District	0500319	Vernon Well #2	1550-0500319	Well	624.91	
1550	Los Angeles County District	0500310	Vernon Well #3	1550-0500319	Well	132,638.37	769,20
1550	Los Angeles County District	0500337	West Basin 27 Connection	1550-0500337	Interconnection	167.85	14
1550	Los Angeles County District	0500024	Bacon Well	1550-0500024	Well	4,107.43	2,57
1550	Los Angeles County District	0500039	Bradbury Tank	1550-0500039	Tank	1,218.12	6,77
1550	Los Angeles County District	0500041	Brookridge Booster Stn	1550-0500041	Booster	655.39	1,15
1550	Los Angeles County District	0500042	Buena Vista Well	1550-0500042	Well	110,715.46	792,28
1550	Los Angeles County District	0500079	Crownhaven Well	1550-0500079	Well	98,233.36	582,41
1550	Los Angeles County District	0500107	Encanto Well	1550-0500107	Well	117,123.29	737,53
						974.03	
1550	Los Angeles County District	0500113		1550-0500113	Well		2,18
1550	Los Angeles County District	0500154	Las Lomas Booster	1550-0500154	Booster	13,484.81	79,15
1550	Los Angeles County District	0500155	Las Lomas Well	1550-0500155	Well	93,273.59	788,21
1550	Los Angeles County District	0500164	Lemon Irrigation Booster	1550-0500164	Irrig Booster	13,141.30	130,96
1550	Los Angeles County District	0500282	Santa Fe Well	1550-0500282	Well	(2,294.96)	1,76
1550	Los Angeles County District	0500286	Scott Reservoir/ Booster	1550-0500286	Booster	91,854.45	671,3
1550						4,150.47	12,9
	Los Angeles County District	0500296	Spinks Reservoir/Booster	1550-0500296	Booster		
1550	Los Angeles County District	0500325	Vineyard Booster Stn	1550-0500325	Booster	7,980.52	18,3
1550	Los Angeles County District	0500347	Wiley Well	1550-0500347	Well	131,978.18	1,091,49
1550	Los Angeles County District	0504922	Duarte Rd. PRV	1550-0504922	Reg Station	205.44	4
1550	Los Angeles County District	0500083	Danford Reservoir	1550-0500083	Booster	43,587.67	304,5
1550	Los Angeles County District	0500089	Del Mar Well	1550-0500089	Well	73,851.90	619,0
						77,959.11	613,3
1550	Los Angeles County District	0500125	Grand Well	1550-0500125	Well		
1550	Los Angeles County District	0500129	Guess Well	1550-0500129	Well	312.83	9
1550	Los Angeles County District	0500131	Hall Well	1550-0500131	Well	171,920.69	1,390,7
1550	Los Angeles County District	0500142	Howland Well	1550-0500142	Well	31,670.81	236,5
1550	Los Angeles County District	0500150	Lamanda Reservoir/Well S	1550-0500150	Booster	57,663.47	312,4
1550	Los Angeles County District	0500167	Lombardy Well	1550-0500167	Well	89,338.60	705,3
1550	Los Angeles County District	0500168	Longden Well/Reservoir	1550-0500168	Well	83,094.04	535,4
1550	Los Angeles County District	0500186	Mariposa Well	1550-0500186	Well	115,676.04	952,2
1550	Los Angeles County District	0500196	Mission View Well	1550-0500196	Well	85,645.05	567,7
1550	Los Angeles County District	0500198	Monterey Booster	1550-0500198	Booster	3,009.60	19,4
1550	Los Angeles County District	0500212	Oak Knoll Circle Well	1550-0500212	Well	503.77	1,1
1550	Los Angeles County District	0500213	Oak Knoll Reservoir	1550-0500213	Booster	65,356.28	303,0
1550		0500221			Well		303,0
	Los Angeles County District		Oswego Well	1550-0500221		9,875.14	
1550	Los Angeles County District	0500236	Patton Reservoir/Well	1550-0500236	Well	42,983.36	186,0
1550	Los Angeles County District	0500258	Roanoke Well	1550-0500258	Well	505.58	
1550	Los Angeles County District	0500265	Rosemead Well	1550-0500265	Well	121,304.72	875,2
1550	Los Angeles County District	0500349	Winston Well	1550-0500349	Well	38,009.51	258,0
1550	Los Angeles County District	0504397	Adams Ranch	1550-0504397	Interconnection	552.08	=00/0
1551		0500016		1551-0500016			100.7
	Ventura County District		American Oaks Booster St		Booster	19,027.18	123,7
1551	Ventura County District	0500036	Borchard Road Turnout	1551-0500036	Interconnection	209.80	3
1551	Ventura County District	0500046	Calle Yucca Turnout	1551-0500046	Interconnection	193.53	3
1551	Ventura County District	0500087	Deer Ridge Tank/Pump Sta	1551-0500087	Booster	13,262.27	41,1
1551	Ventura County District	0500088	Deer Valley Booster Stat	1551-0500088	Booster	8,650.03	48,7
1551	Ventura County District	0500094	Dewey Booster Station	1551-0500094	Booster	12,779.78	81,3
1551		0500098	Dos Vientos Booster/Potr	1551-0500094	Booster		745,4
	Ventura County District					120,506.24	
1551	Ventura County District	0500115	Fordham Booster Station	1551-0500115	Booster	136.74	
1551	Ventura County District	0500126	Green Ridge Tank	1551-0500126	Tank	197.82	3
1551	Ventura County District	0500127	Greenmeadow Booster Stat	1551-0500127	Booster	206.51	3
1551	Ventura County District	0500139	Hillcrest Drive Booster	1551-0500139	Booster	7,536.42	49.8
1551	Ventura County District	0500144	Industrial Tanks	1551-0500144	Tank	254.18	5
1551	Ventura County District	0500146	Janss Booster Station	1551-0500146	Booster	8.283.66	51,3
				1551-0500148		-/	
1551	Ventura County District	0500147	Janss Tank		Tank	208.59	3
1551	Ventura County District	0500149	Kimber Booster Station	1551-0500149	Booster	727.25	3,6
1551	Ventura County District	0500153	Las Flores Turnout	1551-0500153	Booster	201.24	3
1551	Ventura County District	0500161	Las Posas Booster Statio	1551-0500161	Booster	19,969.51	136,3
1551	Ventura County District	0500173	Los Robles Booster Stati	1551-0500173	Booster	18,413,17	107,4
1551	Ventura County District	0500174		1551-0500173	Tank	208.72	3
							-
1551	Ventura County District	0500175	Los Robles Turnout	1551-0500175	Interconnection	189.72	2
1551	Ventura County District	0500189	Mayfield Booster Station	1551-0500189	Booster	14,767.05	118,0
1551	Ventura County District	0500201	Moorpark Booster Station	1551-0500201	Booster	15,580.52	71,0
1551	Ventura County District	0500202	Moorpark Reservoir	1551-0500202	Tank	463.57	1,6
	Ventura County District	0500202	Olsen Road Turnout	1551-0500202	Interconnection	202.25	3
1551							
1551	Ventura County District	0500219	Orbis Tank	1551-0500219	Tank	202.19	3
1551					Tank	200.40	6
1551 1551	Ventura County District	0500222	Pace Reservoir	1551-0500222	Tallk	258.40	
1551 1551	Ventura County District Ventura County District	0500222 0500243	Pace Reservoir Potrero I Reservoir	1551-0500222	Tank	205.84	3
1551 1551 1551	Ventura County District	0500243	Potrero I Reservoir	1551-0500243	Tank	205.84	
1551 1551 1551 1551 1551							

trict #	District Name	Losstian #	Location Name	Unige Identifier	Senden Tuno	\$ Total Cost	KWH Total Head
trict #		0500340	Location Name White Stallion Tank	1551-0500340	Service Type Tank	Total Cost 8.076.56	Total Usag
	Ventura County District						
551	Ventura County District	0500344	Wildwood Booster Station	1551-0500344	Booster	8,617.44	46
551	Ventura County District	0500345	Wildwood Tank	1551-0500345	Tank	2,648.23	15
551	Ventura County District	0500346	Wildwood Turnout	1551-0500346	Interconnection	205.73	
551	Ventura County District	0504439	Borchaerd Road Pump Statio	1551-0504439	Booster	1,314.20	5
551	Ventura County District	0504719	Cortez	1551-0504719	Well/Booster/Tank	21,867.34	109
551	Ventura County District	0504855	Warwick Pump Station	1551-0504855	Tank	4,542.00	22
							22
551	Ventura County District	1504709	Gainsborough PRV	1551-1504709	Reg Station	243.64	
560	Sacramento District	0500005	14020 Isle View Way	1560-0500005	Well	29,152.66	108
560	Sacramento District	0500009	A Parkway Booster Statio	1560-0500009	Interconnection	19,183.03	130
560	Sacramento District	0500017	Andrea #1 Well	1560-0500017	Well	1,459.19	8
560	Sacramento District	0500018	Andrea #2 Well	1560-0500018	Well	58,306.62	422
560		0500020	Arden		Well		6
	Sacramento District			1560-0500020		8,340.94	
560	Sacramento District	0500022	Auberry Well	1560-0500022	Well	19,947.27	143
560	Sacramento District	0500023	Auburn Well	1560-0500023	Well	866.92	4
560	Sacramento District	0500030	Billy Mitchell Well	1560-0500030	Well	261.91	
560	Sacramento District	0500040	Briggs Well	1560-0500040	Well	14,765.56	82
560				1560-0500043		741.06	
	Sacramento District	0500043	Butterfield Well		Well		3
560	Sacramento District	0500045	Caldera Well	1560-0500045	Well	14,828.80	102
560	Sacramento District	0500055	Carriage Well	1560-0500055	Well	3,282.68	23
560	Sacramento District	0500056	Central/Sunrise Well	1560-0500056	Well	3,822.81	25
560	Sacramento District	0500057	Cherbourg Well	1560-0500057	Well	46,392.12	330
					Well		441
560	Sacramento District	0500059	Chipping Well	1560-0500059		56,036.43	
560	Sacramento District	0500061	College Green Well	1560-0500061	Well	1,636.08	9
560	Sacramento District	0500063	Conrad Well	1560-0500063	Well	164.27	
560	Sacramento District	0500064	Cook Riolo Well	1560-0500064	Well	104,485.81	797
560	Sacramento District	0500069	Countryside #1 Well	1560-0500069	Well	57,207.54	380
560	Sacramento District	0500070	Countryside #2 Well	1560-0500070	Well	19,830.26	140
560	Sacramento District	0500071	Countryside Treatment Pl	1560-0500071	Treatment Plant	27,718.13	143
560	Sacramento District	0500072	Countryside Way	1560-0500072	Well	10,067.29	11
560	Sacramento District	0500073	Covered Wagon Well	1560-0500073	Well	3,916.53	28
560	Sacramento District	0500077	Crosswoods Well	1560-0500077	Well	1,277.03	-
560	Sacramento District	0500078	Crowder	1560-0500078	Interconnection	461.44	1
560	Sacramento District	0500082	Daly Well	1560-0500082	Well	49,408.03	340
560	Sacramento District	0500086	Davidson Well	1560-0500086	Well	642.14	- 2
560	Sacramento District	0500095	Diablo Well	1560-0500095	Well	605.83	2
560	Sacramento District	0500097	Don Julio Well	1560-0500097	Well	70,661.81	534
560	Sacramento District	0500101	Eagle Ridge Well	1560-0500101	Well	910.45	4
560	Sacramento District	0500104	Ehine Way Well	1560-0500104	Well	742.19	3
560	Sacramento District	0500105	Elsie Well	1560-0500105	Well	386.74	
560	Sacramento District	0500106	Elverta Well	1560-0500106	Well	697.74	3
560	Sacramento District	0500110	Fairlake #1 Well	1560-0500110	Well	3,945.36	29
560							
	Sacramento District	0500111	Fairlake #2 Well	1560-0500111	Well	36,587.56	290
560	Sacramento District	0500112	Falcon View Well	1560-0500112	Well	2,493.81	16
560	Sacramento District	0500114	Folsom Well	1560-0500114	Well	59,897.67	464
560	Sacramento District	0500117	Fort Sutter Well	1560-0500117	Well	819.73	4
560	Sacramento District	0500118	Foxpark Well	1560-0500118	Well	66,215.29	536
					Well		
560	Sacramento District	0500122	Gerber Well	1560-0500122		579.35	
560	Sacramento District	0500123	Glass Slipperwell	1560-0500123	Well	27,512.65	209
560	Sacramento District	0500124	Gould Well	1560-0500124	Well	15,394.19	105
560	Sacramento District	0500128	Grove #2 Well	1560-0500128	Well	1,574.36	5
560	Sacramento District	0500130	H Street Well	1560-0500130	Well	874.05	
560	Sacramento District	0500130	Hemingway Well	1560-0500130	Well	30,775.06	194
							194
560	Sacramento District	0500133	Hemlock Well	1560-0500133	Well	262.18	
560	Sacramento District	0500145	Jackson Hwy Well	1560-0500145	Well	42,142.70	289
560	Sacramento District	0500163	Le Mans Well	1560-0500163	Well	4,491.16	34
560	Sacramento District	0500165	Linda Sue Well	1560-0500165	Well	8,386.59	37
560	Sacramento District	0500166	Lippi Well	1560-0500166	Well	754.78	
560	Sacramento District	0500184	Malaga Well	1560-0500184	Well	866.28	4
560	Sacramento District	0500187	Mars Well	1560-0500187	Well	35,945.86	290
560	Sacramento District	0500188	Mather / Sacramento Coun	1560-0500188	Interconnection	21,019.17	108
560	Sacramento District	0500200	Moonbeam Well	1560-0500200	Well	20,724.01	128
560	Sacramento District	0500205	North Loop Well	1560-0500200	Well	20,202.08	151
560	Sacramento District	0500209	Nut Plains Well	1560-0500209	Well	6,577.91	
560	Sacramento District	0500210	Oak Forest Well	1560-0500210	Well	7,176.08	28
560	Sacramento District	0500215	Oaken Bucket Well	1560-0500215	Well	33,716.58	234
560	Sacramento District	0500225	Palmerson Well	1560-0500225	Well	13,443.90	31
560		0500228	Parkside Treatment Plant		Treatment Plant	124,160.31	896
	Sacramento District			1560-0500228			
560	Sacramento District	0500242	Point Reyes Well	1560-0500242	Well	720.07	
	Sacramento District	0500244	Power Inn Well	1560-0500244	Well	20,647.59	111
560	Sacramento District	0300244					

trict #	District Name	Location #	Location Name	Unige Identifier	Service Type	\$ Total Cost	KWH Total Usag
trict #	Sacramento District	0500261	Rockhurst Well	1560-0500261	Service Type	25,848,17	185
560	Sacramento District	0500262	Rockingham Well	1560-0500262	Well	873.57	4,
560	Sacramento District	0500263	Rogue River Well	1560-0500263	Well	18,600.89	136
560	Sacramento District	0500264	Rose Parade Treatment Pl	1560-0500264	Treatment Plant	40,251.95	267
560	Sacramento District	0500267	Roseville Rd Well	1560-0500267	Well	4,674.25	33,
560	Sacramento District	0500268	Roseville Road Well	1560-0500268	Well	49,784.04	385
560	Sacramento District	0500269	Rushmore Well	1560-0500269	Well	24,963.27	190
560	Sacramento District	0500277	Salmon Falls Well	1560-0500277	Well	11,230.16	77
							2
560	Sacramento District	0500288	Shenandoah Well	1560-0500288	Well	675.72	
560	Sacramento District	0500291	Sky Parkway Well	1560-0500291	Well	15,810.20	116
560	Sacramento District	0500293	Southgate Well	1560-0500293	Well	11,609.98	63
560	Sacramento District	0500294	Southport Well	1560-0500294	Well	446.69	1
560	Sacramento District	0500300	Stocker Well	1560-0500300	Well	5,149.41	35
560	Sacramento District	0500301	Summerplace Well	1560-0500301	Well	17,508.81	121
560	Sacramento District	0500303	Swansea Well	1560-0500303	Well	35,991.32	290
560	Sacramento District	0500304	Tally Ho #1 Well	1560-0500303	Well	924.42	4
560	Sacramento District	0500310	Treelark Well	1560-0500310	Well	683.78	3
560	Sacramento District	0500311	Twin Parks Well	1560-0500311	Well	1,331.04	7
560	Sacramento District	0500312	Twin Trails Well	1560-0500312	Well	31,202.48	210
560	Sacramento District	0500317	Van Maren Well	1560-0500317	Well	63,588.00	506
560	Sacramento District	0500318	Vandenberg Well	1560-0500318	Well	309.40	
560	Sacramento District	0500324	Villaview Well	1560-0500324	Well	2,237.84	
							224
560	Sacramento District	0500326	Vintage 1 Well	1560-0500326	Well	30,402.99	221
560	Sacramento District	0500327	Vintage 3 Well	1560-0500327	Well	31,667.36	251
560	Sacramento District	0500328	Vintage Treatment Plant	1560-0500328	Treatment Plant	148,173.33	1,158
560	Sacramento District	0500331	Watt Ave Well	1560-0500331	Well	34,913.59	220
560	Sacramento District	0500334	Well 3 3B Treatment Plan	1560-0500334	Treatment Plant	45,842.17	179
560	Sacramento District	0500338	West La Loma Well	1560-0500338	Well	61,953.81	482
560	Sacramento District	0500339			Well	23,720.67	164
			Westporter Well	1560-0500339			
560	Sacramento District	0500341	Whitewater Well	1560-0500341	Well	6,160.76	22
560	Sacramento District	0500342	Wilbur 2 Well	1560-0500342	Well	21,589.25	139
560	Sacramento District	0500343	Wildrose Well	1560-0500343	Well	2,358.04	1
560	Sacramento District	0500348	Winchester Well	1560-0500348	Well	37,023.31	295
560	Sacramento District	0500351	Wittkop Well	1560-0500351	Well	2,060.83	1
560	Sacramento District	0500353	Woodman Well	1560-0500353	Well	36,014.14	212
560	Sacramento District	0500354	Wyda Well	1560-0500354	Well	30,548.13	241
560	Sacramento District	0503452	Laurel Oaks Well	1560-0503452	Well	1,090.25	€
560	Sacramento District	0504006	Isleton Elevated Tank	1560-0504006	Tank	654.04	2
560	Sacramento District	0504057	Folsom Booster Station	1560-0504057	Interconnection	20,924.53	158
560	Sacramento District	0504438	Colonnade Well	1560-0504438	Well	707.94	3
560	Sacramento District	0504456	Lincoln Oaks Tank	1560-0504456	Tank	6,947.49	51
560	Sacramento District	0504493	Dunnigan Well & Pump	1560-0504493	Well	9,855.39	37
560	Sacramento District	0504526	Meadowbrook Well 4	1560-0504526	Well	47,137.71	338
560	Sacramento District	0504739	Walerga Tank & Booster STN	1560-0504739	Booster	17,839.61	64
560	Sacramento District	0504979	Dunnigan WW Pump Station	1560-0504979	Booster	1,327.57	3
560	Sacramento District	0504985	Fruitridge	1560-0504985	Well	3,460.32	8
560	Sacramento District	0504986	Fruitridge	1560-0504986	Well	4,779.80	6
560	Sacramento District	0504987	Fruitridge	1560-0504987	Well	2,356.05	15
560	Sacramento District	0504988	Fruitridge	1560-0504988	Well	1,230.69	7
560	Sacramento District	0504989	Fruitridge Booster	1560-0504989	Booster	17,411.77	116
560	Sacramento District	0504990	Fruitridge	1560-0504990	Well	20,441.26	153
560	Sacramento District	0504991	Fruitridge	1560-0504991	Well	366.45	
560	Sacramento District	0504992	Fruitridge	1560-0504992	Well	312.56	
560	Sacramento District	0504993	Fruitridge	1560-0504993	Well	5,782.32	21
	Sacramento District	0504994		1560-0504994	Well		
560			Fruitridge			2,284.02	14
560	Sacramento District	0504995	Fruitridge	1560-0504995	Well	294.61	
560	Sacramento District	0504996	Fruitridge	1560-0504996	Well	288.74	
560	Sacramento District	0504997	Fruitridge	1560-0504997	Well	278.97	
560	Sacramento District	0504998	Miami Creek Well #1	1560-0504998	Well	53.78	
560	Sacramento District	0504999	Fruitridge	1560-0504999	Well	40,125.35	306
					Well		300
560	Sacramento District	0505000	Fruitridge	1560-0505000		154.36	
560	Sacramento District	0505001	Fruitridge	1560-0505001	Well	283.39	
560	Sacramento District	0505002	Fruitridge	1560-0505002	Well	1,141.52	6
560	Sacramento District	0505003	47th Ave Booster	1560-0505003	Booster	3,714.23	26
560	Sacramento District	0505006	OOOOO Big Sandy Dr	1560-0505006	Well/Booster/Tank	2,480.91	2
560	Sacramento District	0505007	HInds Sub Dv	1560-0505007	Well	1,997.14	
							7
560	Sacramento District	0505008	Glenn Darry Ct Loc 131 Well 2	1560-0505008	Well	1,941.35	E
560	Sacramento District	0505009	Echo Valley View Court Well 8	1560-0505009	Well	13,977.54	53
560	Sacramento District	0505010	Courtney Drive Off Road 426	1560-0505010	Well/Tank	10,738.89	39
	Sacramento District	0505011	Meadow Springs Ln Loc 76 Well 3	1560-0505011	Well	609.84	1
560							

						\$	KWH
District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1560	Sacramento District	0505013	Next to 39563 Pine Rdg	1560-0505013	Booster Tank	407.83	1,246
1560	Sacramento District	0505014	Greenwood Way	1560-0505014	Booster Tank	2,588.07	9,396
1560	Sacramento District		Live Oak Dr	1560-0505015	Booster Tank	3,287.81	12,19
1560	Sacramento District	0505016	Off Darling Wy	1560-0505016	Well/Booster/Tank	827.69	2,43
1560	Sacramento District		Sutton Dr	1560-0505017	Well/Tank	27,272.94	107,00
1560	Sacramento District	0505018	Lt 12 & Boulder Pl	1560-0505018	Booster/Tank	488.77	1,61
1560	Sacramento District	0505019	John West Rd	1560-0505019	Tank	142.65	24
1560	Sacramento District	0505020	Bon Veu	1560-0505020	Well	14,580.80	56,37
1560	Sacramento District		Highland View Ln	1560-0505021	Well/Tank	10,347.14	32,57
1560	Sacramento District	0505022	Public Wate	1560-0505022	Booster Tank	258.61	69
1560	Sacramento District	0505023	Inidan Spgs Rd	1560-0505023	Booster/Tank	156.66	29
1560	Sacramento District	0505024	Victoria Ln	1560-0505024	Booster Tank	2,459.12	1,837
1560	Sacramento District	0505025	Off Victoria Ln	1560-0505025	Well	3,147.52	3,25
1560	Sacramento District	0505026	Indian Rock Rd #1	1560-0505026	Well	84.42	1
1560	Sacramento District	0505027	Indian Rock Rd #2	1560-0505027	Well	325.33	91
1560	Sacramento District	0505028	Meadow Springs L Loc 24	1560-0505028	Well	1,175.98	3,88
1560	Sacramento District	0505029	Echo Valley View Court Well 7	1560-0505029	Well	15,885.36	66,120
1560	Sacramento District	0505030	NE Cor/O Victoria Ln N Slope Rd	1560-0505030	Well/Booster/Tank	4,359.21	15,44
1560	Sacramento District	0505031	51105 Road 426	1560-0505031	Well/Booster/Tank	37,667.00	138,40
1560	Sacramento District	0505032	48444 Victoria Ln	1560-0505032	Well	1,628.86	5,74
1560	Sacramento District	0505033	SE NW NW 21 8 19	1560-0505033	Well	9,018.74	32,92
1560	Sacramento District	0505034	Road 600 Valley St	1560-0505034	Well/Booster/Tank	92.89	4
1560	Sacramento District		Off Rd 600	1560-0505035	Booster Tank	80.18	
1560	Sacramento District	0505036	32282 Horse Canyon Rd	1560-0505036	Well	190.61	40
1560	Sacramento District		End of Bon Veu Circle	1560-0505037	Well	5,919.26	22,21
1560	Sacramento District	0505038	Echo Valley View Court Well 6	1560-0505038	Well	10,458.58	39,88
1560	Sacramento District	0505039	Woodside Dr	1560-0505039	Booster Tank	5,949.14	18,51
1560	Sacramento District	0505040	PO Box 2269	1560-0505040	Security Light	134.47	
1560	Sacramento District	0505041	DOM WELL	1560-0505041	Well	1,846.84	6,74
1560	Sacramento District	0505042	SEC 21 8 19	1560-0505042	Well	5,342.92	22,73
1560	Sacramento District	0505044	Dunnigan Well No. 1	1560-0505044	Well	2,862.33	10,18
1560	Sacramento District	0505045	Alton Arden Booster Statio	1560-0505045	Booster	1,022.07	4,68
1560	Sacramento District	1004534	pump	1560-1004534	Well	27,519.98	81,64
1560	Sacramento District	1004535	Maple & Fir – 40 HP pump	1560-1004535	Well	299.78	
1560	Sacramento District	1004536	Fir & Maple – Chlorine pump	1560-1004536	Well	119.94	
1560	Sacramento District	1004537	SW Corner Balsam & Poplar	1560-1004537	Well	34,024.88	136,10
1561	Larkfield District	0500152	Larkfield Water Treatmen	1561-0500152	Treatment Plant	41,495.27	158,96
1561	Larkfield District	0500181	Lower Wikiup Tank & Boos	1561-0500181	Booster	7,226.47	24,55
1561	Larkfield District	0500206	North Wikiup Tank & Boos	1561-0500206	Booster	5,037.43	18,77
1561	Larkfield District	0500316	Upper Wikiup Tank & Boos	1561-0500316	Booster	2,245.40	7,69
1561	Larkfield District	0500333	Well 1A	1561-0500333	Well	8,810.00	33,79
1561	Larkfield District	0500335	Well 3A	1561-0500335	Well	36,106.69	140,86
1561	Larkfield District	0500336	Well 5	1561-0500336	Well	8,286.20	31,34
1561	Larkfield District	0503602	Aqueduct	1561-0503602	Dam	139.12	31
1561	Larkfield District	0504481	Geyserville Merrill Well 1	1561-0504481	Well	6,560.93	22,55
1561	Larkfield District	0504482	Geyserville Chianti Tank	1561-0504482	Tank	172.91	19
1561	Larkfield District	0504483	Geyserville Railroad Ave W	1561-0504483	Well	10,721.94	38.27

California American Water Purchased Water Details All Districts - 2020

						\$	KWH
District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage

End	End						
		Sum				8,027,545.29	46,395,066.99

Source Data References

WP\_Purchased Power - Original\_101

Refer to Direct Testimony of Stephen Owens and Bahman Pourtaherian

	1	2	4	2
Filing Type: Final				

F=1 - 1		I		T		\$	KWH
District #	District Name San Diego County District	0500006	Location Name 1St & A	Uniqe Identifier 1530-0500006	Service Type Interconnection	Total Cost 150.80	Total Usage
1530	San Diego County District	0500136	Highland Tank	1530-0500006	Tank	604.11	1,680
1530	San Diego County District	0500199	Montgomery Tank	1530-0500199	Tank	644.33	1,816
1530	San Diego County District	0500224	Palm Ave. Flow Meter	1530-0500224	Interconnection	158.33	106
1540	Monterey County District	0500010	Address Via Malpaso	1540-0500010	Booster	491.62	752
1540	Monterey County District	0500011	Airway Upper	1540-0500011	Tank	164.49	178
1540	Monterey County District	0500012	Airways Lower Pp #17	1540-0500012	Booster	5,467.71	19,357
1540	Monterey County District	0500013	Ambler Park Treatment Pl	1540-0500013	Treatment Plant	27,870.32	102,133
1540	Monterey County District	0500014	Ambier Park Well #4	1540-0500014	Well	32,254.82	115,640
1540 1540	Monterey County District	0500015 0500025	Ambler Park Well #5	1540-0500015 1540-0500025	Well Well	298.89 26.014.24	105.214
1540	Monterey County District Monterey County District	0500025	Bay Street Wells #1 & #2 Begonia Iron Removal Pla	1540-0500025	Treatment Plant	28,247.82	105,314 107,871
1540	Monterey County District	0500028	Begonia Iron Removal Pla	1540-0500028	Treatment Plant	121,068.85	551.529
1540	Monterey County District	0500027	Berwick Well #7	1540-0500028	Well	40,560.54	172,552
1540	Monterey County District	0500029	Berwick Well #8	1540-0500029	Well	70,314.02	359,827
1540	Monterey County District	0500031	Birdrock Standby Pump	1540-0500031	Booster	122.71	12
1540	Monterey County District	0500032	Bishop #1 Well	1540-0500032	Well	713.33	1,560
1540	Monterey County District	0500033	Bishop #2 Well	1540-0500033	Well	1,087.51	2,910
1540	Monterey County District	0500035	Boots Rd.	1540-0500035	Tank	370.87	287
1540	Monterey County District	0500037	Boronda Pp #67	1540-0500037	Booster	12,122.09	43,732
1540	Monterey County District	0500047	Carmel Knolls	1540-0500047	Booster	53,246.43	205,189
1540	Monterey County District	0500048	Carmel Valley Filter Pla	1540-0500048	Booster	3,729.76	6,689
1540	Monterey County District	0500049	Carmel Valley Ranch	1540-0500049	Tank	236.88	463
1540	Monterey County District	0500050	Carmel Valley Ranch Pp #	1540-0500050	Booster	13,612.46	48,883
1540 1540	Monterey County District Monterey County District	0500052 0500053	Carmel Way Carmel Woods Pp #8	1540-0500052 1540-0500053	Booster Booster	669.48 11.608.57	1,445 44,569
1540	Monterey County District	0500053	Carola Pp #71	1540-0500054	Booster	4,853.49	17,015
1540	Monterey County District	0500054	Chualar Tank	1540-0500060	Well/Booster/Tank	24,465.62	90,043
1540	Monterey County District	0500065	Corona	1540-0500065	Booster	10,761.47	39,826
1540	Monterey County District	0500067	Corte Codollera Pp	1540-0500067	Toro-Booster	1,640.14	5,237
1540	Monterey County District	0500075	Crespi	1540-0500075	Booster	2,921.85	10,805
1540	Monterey County District	0500076	Crest Reservoir (Conc)	1540-0500076	Tank	326.88	815
1540	Monterey County District	0500080	Cypress Well	1540-0500080	Well	165,097.31	1,042,295
1540	Monterey County District	0500081	Cypress Pp #14	1540-0500081	Booster	2,921.98	9,852
1540	Monterey County District	0500090	Del Mesa Pp #42	1540-0500090	Booster	7,627.39	25,380
1540	Monterey County District	0500091	Del Monte Test Well	1540-0500091	Well	317.76	3
1540 1540	Monterey County District	0500092	Del Rey Regulating Stati	1540-0500092	Reg Station	326.63	819
1540	Monterey County District Monterey County District	0500099 0500102	Dry Creek Eardley Pp #1	1540-0500099 1540-0500102	Booster Booster	376.74 146.893.28	234 636,243
1540	Monterey County District	0500102	Eddy Road	1540-0500102	Booster	1,619.55	5,167
1540	Monterey County District	0500103	Encina Pp #54	1540-0500103	Booster	1,516.08	5,562
1540	Monterey County District	0500116	Forest Lake Tanks	1540-0500116	Tank	401.65	1,118
1540	Monterey County District	0500120	Garzas Well #3	1540-0500120	Well	3,595.85	14,103
1540	Monterey County District	0500121	Garzas Well #4	1540-0500121	Well	14,228.73	53,787
1540	Monterey County District	0500134	Hidden Hills Treatment P	1540-0500134	Treatment Plant	82,718.44	304,342
1540	Monterey County District	0500135	High Meadows Pp #45	1540-0500135	Booster	23,300.40	88,208
1540	Monterey County District	0500137	Highland Pp #47	1540-0500137	Booster	962.61	2,438
1540	Monterey County District	0500143	Huckleberry Pp #23	1540-0500143	Booster	6,079.76	22,875
1540	Monterey County District	0500169	Los Laureles Well # 3	1540-0500169	Well	317.57	296
1540	Monterey County District	0500170	Los Laureles Well #5	1540-0500170	Well	4,964.74	17,987
1540 1540	Monterey County District Monterey County District	0500171 0500172	Los Laureles Well #6 Los Padres Dam	1540-0500171 1540-0500172	Well	21,244.28	95,809
1540	Monterey County District	0500172	Los Tulares Lower Pp #51	1540-0500172	Dam Booster	1,622.54 3,199.81	5,159 10,912
1540	Monterey County District	0500170	Los Tulares Pp #50	1540-0500170	Booster	7,572.35	27,510
1540	Monterey County District	0500177	Los Tulares Upper	1540-0500177	Booster	2,315.48	8,108
1540	Monterey County District	0500179	Lower Markham Ranch Pp	1540-0500179	Toro-Booster	2,870.13	9,998
1540	Monterey County District	0500180	Lower Tierra Grande	1540-0500180	Booster	4,683.25	16,114
1540	Monterey County District	0500183	Luzern Well	1540-0500183	Well	57,828.55	196,531
1540	Monterey County District	0500190	Mercurio Pp #59	1540-0500190	Booster	1,194.48	3,546
1540	Monterey County District	0500191	Mesa Pp #2A	1540-0500191	Booster	27,905.12	71,558
1540	Monterey County District	0500192	Meyers Pneumatic Pp #81	1540-0500192	Booster	739.44	1,702
1540	Monterey County District	0500193	Middle Canyon Upper	1540-0500193	Booster	2,076.88	6,663
1540	Monterey County District	0500194	Middle Tierra Grande	1540-0500194	Booster	2,119.28	6,625
1540	Monterey County District	0500204	Munras	1540-0500204	Booster	11,826.38	41,803
1540 1540	Monterey County District Monterey County District	0500208 0500220	Nueve Ord Grove Ozone Plant	1540-0500208 1540-0500220	Booster Treatment Plant	8,706.24 194,801.28	33,401 955,458
1540	Monterey County District	0500220	Panetta Well #1	1540-0500220	Well	194,801.28	955,458 79,911
1540	Monterey County District	U3UU220	Panetra wen #1	1340-0300226	wen	19,027.83	19,911

Filing Type: Final

Refer to Direct Testimony of Stephen Owens and Bahman Pourtaherian

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istrict #							
	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
	Monterey County District	0500227	Paralta Well	1540-0500227	Well	157,236.06	717,7
	Monterey County District	0500231	Pasadera Pump Station	1540-0500231	Booster	5,381.75	18,6
	Monterey County District	0500234	Pasadera Wwtp Generators	1540-0500234	Treatment Plant	3,752.79	
	Monterey County District	0500235	Paseo Privado Lower Pp #	1540-0500235	Booster	2,566.27	8,8
	Monterey County District	0500237 0500238	Pearce Well	1540-0500237 1540-0500238	Well Booster	159,890.68 999.36	855,6 2,6
	Monterey County District Monterey County District	0500238	Pebble Beach Pp #6 Pebble Beach Pp 6B	1540-0500238	Booster	39,405.85	157.3
	Monterey County District	0500239	Playa Well #3	1540-0500239	Well	7,043.97	4,6
	Monterey County District	0500240	Plumas Well	1540-0500240	Well	37,115.41	166,3
	Monterey County District	0500241	Quail Meadows	1540-0500241	Booster	1,940.90	6,4
	Monterey County District	0500247	Ragsdale	1540-0500247	Treatment Plant	23,066.77	89,2
	Monterey County District	0500248	Ralph Lane Well	1540-0500248	Well	3.018.29	10.3
	Monterey County District	0500249	Rancho Blvd Pp #10	1540-0500249	Booster	473.36	10,1
	Monterey County District	0500250	Rancho Canada Well	1540-0500250	Well	123,466.57	701,4
	Monterey County District	0500251	Rancho Fiesta Pp #61	1540-0500251	Booster	2,268.33	7,8
	Monterey County District	0500252	Rancho Fiesta Pp #62	1540-0500252	Booster	1,498.74	5,4
	Monterey County District	0500253	Rancho Mar Monte	1540-0500253	Booster	2,110.50	7,2
	Monterey County District	0500254	Ridgeway	1540-0500254	Booster	4,029.11	13,8
1540	Monterey County District	0500256	Rimrock Upper Pp #82	1540-0500256	Booster	5,662.24	19,
1540	Monterey County District	0500257	Rio Vista Pp #53	1540-0500257	Booster	4,508.33	15,9
1540	Monterey County District	0500259	Robles Well	1540-0500259	Well	1,157.27	3,4
1540	Monterey County District	0500260	Robles Lower	1540-0500260	Booster	7,182.31	26,0
1540	Monterey County District	0500272	Ryan Ranch #9	1540-0500272	Well	37,003.36	177,2
1540	Monterey County District	0500273	Ryan Ranch Tank	1540-0500273	Tank	1,211.89	4,4
1540	Monterey County District	0500274	Ryan Ranch Well #11	1540-0500274	Well	418.59	
1540	Monterey County District	0500275	Ryan Ranch Well #7	1540-0500275	Well	5,106.77	10,
1540	Monterey County District	0500278	San Carlos Well #2	1540-0500278	Well	1,783.45	1,
	Monterey County District	0500280	Sand City Brackish Water	1540-0500280	Treatment Plant	89,409.94	376,
	Monterey County District	0500284	Schulte Well	1540-0500284	Well	66,687.52	326,
1540	Monterey County District	0500287	Segunda	1540-0500287	Booster	77,613.81	198,
	Monterey County District	0500295	Spectacular Bid Pp #75	1540-0500295	Booster	4,577.54	15,
	Monterey County District	0500299	Stirrup	1540-0500299	Booster	13,329.09	47,9
	Monterey County District	0500306	Telemetry Water Station	1540-0500306	Flow Station	156.56	
	Monterey County District	0500307	Tierra Grande Pp #38	1540-0500307	Booster	4,476.08	15,
	Monterey County District	0500308	Tioga Wells #4 & # 5	1540-0500308	Well	32,996.76	136,
	Monterey County District	0500309	Toyon Lower Pp #32	1540-0500309	Booster	10,337.18	35,
	Monterey County District	0500313	Upper Estrella D Oro Pne	1540-0500313	Booster	1,972.53	6,
	Monterey County District	0500314	Upper Markham Ranch Pp	1540-0500314	Toro-Booster	1,272.00	3,
	Monterey County District	0500315	Upper Tierra Grande	1540-0500315	Booster	1,801.96	5,
	Monterey County District	0500321	Via Contenta	1540-0500321	Booster	11,401.95	41,
	Monterey County District	0500322	Via Las Encinas	1540-0500322	Booster	3,845.94	13,
	Monterey County District	0500323	Viejo Tank	1540-0500323	Tank	344.56	
	Monterey County District	0500329	Viscaino	1540-0500329	Booster	509.74	
	Monterey County District	0500330	Waldon Lower	1540-0500330	Booster	2,941.18	9,
	Monterey County District	0500332	Well #1 And #2 Highway 6	1540-0500332	Toro-Well/Treatment	46,737.27	195,
	Monterey County District	0500350	Withers Pp #12	1540-0500350	Booster	19,902.97	69,
	Monterey County District	0503447	Del Monte Regulating Sta	1540-0503447	Reg Station	23,259.29	85,
	Monterey County District	0503580	Mount Devon Tank	1540-0503580	Tank	317.51	
	Monterey County District	0504010	Lower Estrello D Oro	1540-0504010	Booster	3,519.08	12,
	Monterey County District	0504015	Ambler Oaks Well	1540-0504015	Well	397.95	1,
	Monterey County District	0504056	Crest Canyon Tank	1540-0504056	Tank	173.35	
	Monterey County District	0504090	Upper Toyon Tank #1	1540-0504090	Tank	468.45	1,
	Monterey County District	0504127	Garrapata Pump #5	1540-0504127	Well	8,563.96	30,
	Monterey County District	0504695	Hilby ASR Pump Station	1540-0504695	Booster	423,402.85	1,829,
	Monterey County District	0504874	Hilby Tank	1540-0504874	Tank Well	39,985.90	149,
	Monterey County District	0504974	Test Well Site	1540-0504974		11,901.15	5,
	Monterey Wastewater Monterey Wastewater	0500051	Carmel Valley Ranch Wwtp Holt Rd Lift Station	1542-0500051 1542-0500140	Waste Water Waste Water	43,869.14	223,
		0500140				4,163.27	14,
	Monterey Wastewater	0500156	Las Palmas Lift Station #1	1542-0500156	Waste Water	4,412.72	15,
	Monterey Wastewater	0500157	Las Palmas Lift Station #2	1542-0500157	Waste Water	9,364.82	33,
	Monterey Wastewater	0500158	Las Palmas Lift Station #3	1542-0500158	Waste Water	4,092.77	14,
	Monterey Wastewater	0500159	Las Palmas Lift Station #4	1542-0500159	Waste Water	877.69	2,
	Monterey Wastewater	0500160	Las Palmas Wastewater Tr	1542-0500160	Waste Water	121,083.31	603,
	Monterey Wastewater	0500211	Oak Hills Wastewater Tre	1542-0500211	Waste Water	14,584.67	57,
1542	Monterey Wastewater	0500229	Pasadera	1542-0500229	Waste Water	11,055.83	39, 23,
1542	Monterey Wastewater	0500230	Pasadera Lift Station #2	1542-0500230	Waste Water	6,578.50	

4/11/2023

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istrict #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1542	Monterey Wastewater	0500233	Pasadera Wwtp #2	1542-0500233	Waste Water	45,224.50	198,8
1542 1551	Monterey Wastewater	0504176	Spreckels Wastewater Tre	1542-0504176	Waste Water	2,229.59	7,5 116,7
1551	Ventura County District	0500016	American Oaks Booster St Borchard Road Turnout	1551-0500016 1551-0500036	Booster	23,219.79 237.80	110,7
1551	Ventura County District	0500036			Interconnection	237.80	2
1551	Ventura County District	0500046	Calle Yucca Turnout	1551-0500046	Interconnection	21,180.63	60,2
1551	Ventura County District Ventura County District	0500087 0500088	Deer Ridge Tank/Pump Sta Deer Valley Booster Stat	1551-0500087 1551-0500088	Booster Booster	12,167.92	54.4
1551	Ventura County District	0500088	Dewey Booster Station	1551-0500088	Booster	13,166.16	64,
1551	Ventura County District	0500094	Dos Vientos Booster/Potr	1551-0500094	Booster	150,938.46	701,
1551	Ventura County District	0500115	Fordham Booster Station	1551-0500115	Booster	174.95	701,
1551	Ventura County District	0500115	Green Ridge Tank	1551-0500115	Tank	245.32	
1551	Ventura County District	0500126	Greenmeadow Booster Stat	1551-0500126	Booster	194.04	
1551	Ventura County District	0500127	Hillcrest Drive Booster	1551-0500127	Booster	8,182.27	47,
1551	Ventura County District	0500139	Industrial Tanks	1551-0500144	Tank	309.40	47,
1551	Ventura County District	0500144	Janss Booster Station	1551-0500144	Booster	10,120.86	48,
1551	Ventura County District	0500140	Janss Tank	1551-0500147	Tank	257.94	40,
1551	Ventura County District	0500147	Kimber Booster Station	1551-0500147	Booster	890.13	3.
1551	Ventura County District	0500143	Las Flores Turnout	1551-0500143	Booster	249.75	۵,
1551	Ventura County District	0500153	Las Posas Booster Statio	1551-0500153	Booster	26,219,07	137.
1551	Ventura County District	0500101	Los Robles Booster Stati	1551-0500101	Booster	11,049.18	53
1551	Ventura County District	0500173	Los Robles Tanks	1551-0500173	Tank	260.08	33,
1551	Ventura County District	0500174	Los Robles Turnout	1551-0500174	Interconnection	236.49	
1551	Ventura County District	0500173	Mayfield Booster Station	1551-0500175	Booster	16,224.60	104
551	Ventura County District	0500201	Moorpark Booster Station	1551-0500201	Booster	17,762.83	70
1551	Ventura County District	0500202	Moorpark Reservoir	1551-0500201	Tank	560.84	1
551	Ventura County District	0500202	Olsen Road Turnout	1551-0500202	Interconnection	224.47	-
551	Ventura County District	0500217	Orbis Tank	1551-0500217	Tank	229.68	
551	Ventura County District	0500213	Pace Reservoir	1551-0500213	Tank	311.27	
551	Ventura County District	0500243	Potrero I Reservoir	1551-0500243	Tank	232.66	
551	Ventura County District	0500243	Shopping Center I Reserv	1551-0500249	Tank	174.22	
1551	Ventura County District	0500290	Shopping Center li Reser	1551-0500290	Tank	752.57	
1551	Ventura County District	0500297	Springwood Booster Stati	1551-0500297	Booster	2,869.93	
551	Ventura County District	0500340	White Stallion Tank	1551-0500340	Tank	8,390.61	47
551	Ventura County District	0500344	Wildwood Booster Station	1551-0500344	Booster	12,191.46	52
1551	Ventura County District	0500345	Wildwood Tank	1551-0500345	Tank	2,742.32	13.
551	Ventura County District	0500346	Wildwood Turnout	1551-0500346	Interconnection	269.46	
1551	Ventura County District	0504439	Borchaerd Road Pump Statio	1551-0504439	Booster	6,261.53	15
1551	Ventura County District	0504719	Rio Plaza Cortez	1551-0504719	Well/Booster/Tank	26,643,34	113
551	Ventura County District	0504855	Warwick Pump Station	1551-0504855	Tank	4.366.39	18
551	Ventura County District	1504709	Gainsborough PRV	1551-1504709	Reg Station	261.69	20
1550	Los Angeles County District	0500008	48Th Street Well	1550-0500008	Well	22,291,21	6
1550	Los Angeles County District	0500019	Angeles Mesa Reservoir	1550-0500019	Booster	1,144.51	2
1550	Los Angeles County District	0500021	Arlington Well	1550-0500021	Well	16.825.56	2
1550	Los Angeles County District	0500074	Crenshaw Well	1550-0500074	Well	139,352.98	776
1550	Los Angeles County District	0500119	Garth Reservoir	1550-0500119	Booster	18,310.41	80
1550	Los Angeles County District	0500141	Homeland Reservoir	1550-0500141	Tank	354.77	
1550	Los Angeles County District	0500203	Mt. Vernon Reservoir	1550-0500203	Booster	13,684.92	86
1550	Los Angeles County District	0500218	Olympiad Reservoir	1550-0500218	Booster	44,429.79	252
1550	Los Angeles County District	0500292	Slauson Avenue Corrosion	1550-0500292	Treatment Plant	259.86	
1550	Los Angeles County District	0500319	Vernon Well #2	1550-0500319	Well	827.15	
1550	Los Angeles County District	0500320	Vernon Well #3	1550-0500320	Well	128,862.21	714
1550	Los Angeles County District	0500337	West Basin 27 Connection	1550-0500337	Interconnection	215.37	
550	Los Angeles County District	0500024	Bacon Well	1550-0500024	Well	1,352.07	1
.550	Los Angeles County District	0500039	Bradbury Tank	1550-0500039	Tank	1,637.90	7
550	Los Angeles County District	0500041	Brookridge Booster Stn	1550-0500041	Booster	518.20	
550	Los Angeles County District	0500042	Buena Vista Well	1550-0500042	Well	200,854.72	1,240
.550	Los Angeles County District	0500079	Crownhaven Well	1550-0500079	Well	124,948.44	681
.550	Los Angeles County District	0500107	Encanto Well	1550-0500107	Well	119,306.05	609
1550	Los Angeles County District	0500113	Fish Canyon Well	1550-0500113	Well	698.73	
1550	Los Angeles County District	0500154	Las Lomas Booster	1550-0500154	Booster	11,767.72	54,
1550	Los Angeles County District	0500155	Las Lomas Well	1550-0500155	Well	71,147.74	357
1550	Los Angeles County District	0500164	Lemon Irrigation Booster	1550-0500164	Irrig Booster	38,823.03	174
1550	Los Angeles County District	0500282	Santa Fe Well	1550-0500282	Well	11,870.05	4
1550	Los Angeles County District	0500286	Scott Reservoir/ Booster	1550-0500286	Booster	87,196.03	492
1550	Los Angeles County District	0500296	Spinks Reservoir/Booster	1550-0500296	Booster	4,990.87	13,
1550	Los Angeles County District	0500255	Vineyard Booster Stn	1550-0500256	Booster	3,839.21	1,
	Los Angeles County District	0500347	Wiley Well	1550-0500347	Well	150,047.39	1,041

Source Data

References

California American Water Purchased Water Details All Districts - 2022 General Rate Case

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						\$	KWH
District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1550	Los Angeles County District	0504922	Duarte Rd. PRV	1550-0504922	Reg Station	253.16	4
1550	Los Angeles County District	0505116	Deodar	1550-0505116	Reg Station	145.01	1
1550	Los Angeles County District	0500083	Danford Reservoir	1550-0500083	Booster	67,662.08	386,0
1550	Los Angeles County District	0500089	Del Mar Well	1550-0500089	Well	137,241.90	860,3
1550	Los Angeles County District	0500125	Grand Well	1550-0500125	Well	60,406.31	257,4
1550	Los Angeles County District	0500129	Guess Well	1550-0500129	Well	370.18	9
1550	Los Angeles County District	0500131	Hall Well	1550-0500131	Well	134,960.92	624,3
1550	Los Angeles County District	0500142	Howland Well	1550-0500142	Well	63,320.09	319,1
1550	Los Angeles County District	0500150	Lamanda Reservoir/Well S	1550-0500150	Booster	60,724.08	332,2
1550	Los Angeles County District	0500167	Lombardy Well	1550-0500167	Well	112,691.55	774,6
1550	Los Angeles County District	0500168	Longden Well/Reservoir	1550-0500168	Well	99,124.85	579,9
1550	Los Angeles County District	0500186	Mariposa Well	1550-0500186	Well	133,467.88	934,6
1550	Los Angeles County District	0500196	Mission View Well	1550-0500196	Well	129,178.92	775,1
1550	Los Angeles County District	0500198	Monterey Booster	1550-0500198	Booster	3,756.03	20,7
1550	Los Angeles County District	0500212	Oak Knoll Circle Well	1550-0500212	Well	610.96	1,2
1550	Los Angeles County District	0500213	Oak Knoll Reservoir	1550-0500213	Booster	64,930.20	314,7
1550	Los Angeles County District	0500221	Oswego Well	1550-0500221	Well	10,072.00	
1550	Los Angeles County District	0500236	Patton Reservoir/Well	1550-0500236	Well	34,654.81	143,1
1550	Los Angeles County District	0500258	Roanoke Well	1550-0500258	Well	683.90	
1550	Los Angeles County District	0500265	Rosemead Well	1550-0500265	Well	200,587.67	1,366,4
1550	Los Angeles County District	0500349	Winston Well	1550-0500349	Well	44,305.49	257,1
1550	Los Angeles County District	0504397	Adams Ranch	1550-0504397	Interconnection	716.35	
1550	Los Angeles County District	0505171	Woodward Site	1550-0505171	Booster	10,184.72	59,6
1550	Los Angeles County District	0505172	Duarte Rd Well Site	1550-0505172	Well/Booster	73,559.68	571,9
1550	Los Angeles County District	0505173	Michillinda Site	1550-0505173	Well	314.81	3
1550	Los Angeles County District	0505174	East Pasadena Office	1550-0505174	Well/Booster	5,773.84	30,:
1560	Sacramento District	0500005	14020 Isle View Way	1560-0500005	Well	29,000.60	109,
1560	Sacramento District	0500009	A Parkway Booster Statio	1560-0500009	Interconnection	13,125.39	84,5
1560	Sacramento District	0500017	Andrea #1 Well	1560-0500017	Well	1,726.96	9,9
1560	Sacramento District	0500018	Andrea #2 Well	1560-0500018	Well	60,913.90	398,
1560	Sacramento District	0500020	Arden	1560-0500020	Well	58.68	
1560	Sacramento District	0500022	Auberry Well	1560-0500022	Well	38,444.19	290,
1560	Sacramento District	0500023	Auburn Well	1560-0500023	Well	1,407.13	7,5
1560	Sacramento District	0500030	Billy Mitchell Well	1560-0500030	Well	292.80	
1560	Sacramento District	0500040	Briggs Well	1560-0500040	Well	27,035.20	185,
1560	Sacramento District	0500043	Butterfield Well	1560-0500043	Well	807.42	3,5
1560	Sacramento District	0500045	Caldera Well	1560-0500045	Well	28,923.26	142,2
1560	Sacramento District	0500055	Carriage Well	1560-0500055	Well	27,308.02	198,1
1560	Sacramento District	0500056	Central/Sunrise Well	1560-0500056	Well	3,463.84	22,
1560	Sacramento District	0500057	Cherbourg Well	1560-0500057	Well	55,413.49	397,5
1560	Sacramento District	0500059	Chipping Well	1560-0500059	Well	50,758.89	376,3
1560	Sacramento District	0500061	College Green Well	1560-0500061	Well	1,815.51	10,5
1560	Sacramento District	0500063	Conrad Well	1560-0500063	Well	166.37	
1560	Sacramento District	0500064	Cook Riolo Well	1560-0500064	Well	97,759.50	702,
1560	Sacramento District	0500069	Countryside #1 Well	1560-0500069	Well	81,711.45	572,8
1560	Sacramento District	0500070	Countryside #2 Well	1560-0500070	Well	37,750.17	285,7
1560	Sacramento District	0500071	Countryside Treatment Pl	1560-0500071	Treatment Plant	47,708.61	298,7
1560	Sacramento District	0500072	Countryside Way	1560-0500072	Well	1,542.70	8,6
1560	Sacramento District	0500073	Covered Wagon Well	1560-0500073	Well	3,427.00	23,
1560	Sacramento District	0500077	Crosswoods Well	1560-0500077	Well	1,052.78	5.4
1560	Sacramento District	0500078	Crowder	1560-0500078	Interconnection	517.13	1,4
1560	Sacramento District	0500082	Daly Well	1560-0500082	Well	74,936.50	531.9
1560	Sacramento District	0500086	Davidson Well	1560-0500086	Well	708.41	3,0
1560	Sacramento District	0500095	Diablo Well	1560-0500095	Well	631.19	2,4
1560	Sacramento District	0500097	Don Julio Well	1560-0500097	Well	63,202,28	445,
1560	Sacramento District	0500101	Eagle Ridge Well	1560-0500101	Well	851.15	4,0
1560	Sacramento District	0500104	Ehine Way Well	1560-0500104	Well	787.28	3.4
1560	Sacramento District	0500105	Elsie Well	1560-0500105	Well	418.88	,
1560	Sacramento District	0500105	Elverta Well	1560-0500105	Well	745.10	3,:
1560	Sacramento District	0500100	Fairlake #1 Well	1560-0500100	Well	2,783.65	19.3
1560	Sacramento District	0500111	Fairlake #2 Well	1560-0500110	Well	36,839.36	276.5
1560	Sacramento District	0500111	Falcon View Well	1560-0500111	Well	2,942.87	18.6
1560	Sacramento District	0500112	Folsom Well	1560-0500112	Well	53,329.64	404.0
1560	Sacramento District	0500114	Fort Sutter Well	1560-0500114	Well	865.66	404,0
1560	Sacramento District	0500117	Foxpark Well	1560-0500117	Well	76,139.65	597,
1560	Sacramento District	0500118	Gerber Well	1560-0500118	Well	634.94	2,
1560	Sacramento District	0500122	Glass Slipperwell	1560-0500122	Well	17,672.92	118,

Filing Type: Final

Source Data References

WP\_Purchased Power - Original\_101

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4						\$	KWH
District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1560 1560	Sacramento District Sacramento District	0500124 0500128	Gould Well Grove #2 Well	1560-0500124 1560-0500128	Well Well	5,742.19 1,600.86	14,387 5,049
1560	Sacramento District	0500128	H Street Well	1560-0500128	Well	965.77	2,612
1560	Sacramento District	0500130	Hemingway Well	1560-0500130	Well	32,885.77	201,385
1560	Sacramento District	0500133	Hemlock Well	1560-0500133	Well	299.33	141
1560	Sacramento District	0500145	Jackson Hwy Well	1560-0500145	Well	17,125.04	51,800
1560	Sacramento District	0500163	Le Mans Well	1560-0500163	Well	840.50	3,771
1560	Sacramento District	0500165	Linda Sue Well	1560-0500165	Well	16,765.43	106,626
1560	Sacramento District	0500166	Lippi Well	1560-0500166	Well	836.39	3,899
1560 1560	Sacramento District Sacramento District	0500184 0500187	Malaga Well Mars Well	1560-0500184 1560-0500187	Well Well	914.43 25,456.71	4,287 159,868
1560	Sacramento District	0500187	Mather / Sacramento Coun	1560-0500187	Interconnection	20,984.42	91,977
1560	Sacramento District	0500200	Moonbeam Well	1560-0500200	Well	20,424.70	122,884
1560	Sacramento District	0500205	North Loop Well	1560-0500205	Well	35,105.92	262,103
1560	Sacramento District	0500209	Nut Plains Well	1560-0500209	Well	57,863.13	414,472
1560	Sacramento District	0500210	Oak Forest Well	1560-0500210	Well	386.54	2,537
1560	Sacramento District	0500215	Oaken Bucket Well	1560-0500215	Well	38,768.05	264,163
1560	Sacramento District	0500225	Palmerson Well	1560-0500225	Well	3,342.81	4,937
1560 1560	Sacramento District	0500228	Parkside Treatment Plant	1560-0500228	Treatment Plant	148,253.86 781.66	1,012,267
1560	Sacramento District Sacramento District	0500242 0500244	Point Reyes Well Power Inn Well	1560-0500242 1560-0500244	Well Well	7,631.31	3,521 1,771
1560	Sacramento District	0500244	Prior Way Well	1560-0500244	Well	723.43	3,090
1560	Sacramento District	0500261	Rockhurst Well	1560-0500243	Well	39,983.89	273,609
1560	Sacramento District	0500262	Rockingham Well	1560-0500262	Well	892.37	4,175
1560	Sacramento District	0500263	Rogue River Well	1560-0500263	Well	27,500.69	201,758
1560	Sacramento District	0500264	Rose Parade Treatment PI	1560-0500264	Treatment Plant	20,029.91	82,601
1560	Sacramento District	0500267	Roseville Rd Well	1560-0500267	Well	3,712.60	24,391
1560	Sacramento District	0500268	Roseville Road Well	1560-0500268	Well	25,370.01	150,851
1560	Sacramento District	0500269	Rushmore Well	1560-0500269	Well Well	25,796.54	183,590
1560 1560	Sacramento District Sacramento District	0500277 0500288	Salmon Falls Well Shenandoah Well	1560-0500277 1560-0500288	Well	11,594.17 742.10	43,969 3,122
1560	Sacramento District	0500288	Sky Parkway Well	1560-0500288	Well	10,481.44	32,920
1560	Sacramento District	0500291	Southgate Well	1560-0500293	Well	9,651.69	39,769
1560	Sacramento District	0500294	Southport Well	1560-0500294	Well	35.35	0
1560	Sacramento District	0500297	Springwood Booster Stati	1560-0500297	Booster	3,934.58	41,336
1560	Sacramento District	0500300	Stocker Well	1560-0500300	Well	5,360.93	36,967
1560	Sacramento District	0500301	Summerplace Well	1560-0500301	Well	18,793.35	93,716
1560	Sacramento District	0500303	Swansea Well	1560-0500303	Well	26,566.77	190,626
1560	Sacramento District	0500304	Tally Ho #1 Well	1560-0500304	Well	9,771.49	57,056
1560 1560	Sacramento District Sacramento District	0500305 0500310	Tally Ho #2 Well Treelark Well	1560-0500305 1560-0500310	Well Well	3,202.67 698.63	5,040 2,798
1560	Sacramento District	0500310	Twin Parks Well	1560-0500310	Well	1,460.76	8,133
1560	Sacramento District	0500312	Twin Trails Well	1560-0500312	Well	44,659.64	313,299
1560	Sacramento District	0500317	Van Maren Well	1560-0500317	Well	67,613.27	513,885
1560	Sacramento District	0500318	Vandenberg Well	1560-0500318	Well	337.20	437
1560	Sacramento District	0500324	Villaview Well	1560-0500324	Well	363.88	519
1560	Sacramento District	0500326	Vintage 1 Well	1560-0500326	Well	5,671.76	3,149
1560	Sacramento District	0500327	Vintage 3 Well	1560-0500327	Well	32,194.18	243,496
1560 1560	Sacramento District Sacramento District	0500328 0500331	Vintage Treatment Plant Watt Ave Well	1560-0500328 1560-0500331	Treatment Plant Well	141,689.08 37,609.31	1,173,737
1560	Sacramento District	0500331	Well 3 3B Treatment Plan	1560-0500331	Treatment Plant	46,241.45	228,242 177,086
1560	Sacramento District	0500334	West La Loma Well	1560-0500334	Well	76,216.32	581,066
1560	Sacramento District	0500339	Westporter Well	1560-0500339	Well	5,058.05	3,931
1560	Sacramento District	0500341	Whitewater Well	1560-0500341	Well	1,632.12	5,590
1560	Sacramento District	0500342	Wilbur 2 Well	1560-0500342	Well	26,452.18	175,323
1560	Sacramento District	0500343	Wildrose Well	1560-0500343	Well	287.96	0
1560	Sacramento District	0500348	Winchester Well	1560-0500348	Well	38,766.73	293,787
1560	Sacramento District	0500351	Wittkop Well	1560-0500351	Well	17,762.71	70,537
1560	Sacramento District	0500353	Woodman Well	1560-0500353	Well	38,558.82	216,923
1560 1560	Sacramento District Sacramento District	0500354 0503452	Wyda Well Laurel Oaks Well	1560-0500354 1560-0503452	Well Well	28,794.91 621.98	214,939 2,422
1560	Sacramento District	0503452	Isleton Elevated Tank	1560-0503432	Tank	907.63	3.041
1560	Sacramento District	0504057	Folsom Booster Station	1560-0504057	Interconnection	16,470.88	112,113
1560	Sacramento District	0504438	Colonnade Well	1560-0504438	Well	767.24	3,174
1560	Sacramento District	0504456	Lincoln Oaks Tank	1560-0504456	Tank	5,157.08	34,042
1560	Sacramento District	0504493	Dunnigan Well & Pump	1560-0504493	Well	7,016.91	25,609
1560	Sacramento District	0504526	Meadowbrook Well 4	1560-0504526	Well	13,296.63	51,760

4/11/2023

Filing Type: Final

Source Data References

WP\_Purchased Power - Original\_101

Refer to Direct Testimony of Stephen Owens and Bahman Pourtaherian

1	2	4	5

District #	District Name	I I a antion #I	Lacation Name	Uniqe Identifier	Consider Tumo	\$ Total Cost	KWH Total Usage
1560	Sacramento District	0504739	Location Name Walerga Tank & Booster STN	1560-0504739	Service Type Booster	19.798.48	91,465
1560	Sacramento District	0504979	Dunnigan WW Pump Station	1560-0504979	Booster	1,993.12	6,468
1560	Sacramento District	0504985	Well #4 - Fruitridge	1560-0504985	Well	3,398.21	11,408
1560	Sacramento District	0504986	Well #14 - Fruitridge	1560-0504986	Well	170.54	0
1560	Sacramento District	0504987	Well #19 - Fruitridge	1560-0504987	Well	1,697.66	9,196
1560	Sacramento District	0504988	Well # 18 - Fruitridge	1560-0504988	Well	15,722.93	103,452
1560	Sacramento District	0504989	Fruitridge Booster	1560-0504989	Booster	19,048.14	108,183
1560 1560	Sacramento District Sacramento District	0504990 0504991	Well #3 - Fruitridge Well #7 - Fruitridge	1560-0504990 1560-0504991	Well Well	11,036.75 437.22	62,125 1,059
1560	Sacramento District	0504992	Well #15 - Fruitridge	1560-0504991	Well	372.86	409
1560	Sacramento District	0504993	Well #9 - Fruitridge	1560-0504993	Well	3,480.60	362
1560	Sacramento District	0504994	Well #17 - Fruitridge	1560-0504994	Well	2,328.86	13,945
1560	Sacramento District	0504995	Well #10 - Fruitridge	1560-0504995	Well	244.45	30
1560	Sacramento District	0504996	Well #8 - Fruitridge	1560-0504996	Well	296.61	62
1560	Sacramento District	0504997	Well #6 - Fruitridge	1560-0504997	Well	223.16	38
1560	Sacramento District	0504998	Miami Creek Well #1	1560-0504998	Well	91.13 65.420.64	506.890
1560 1560	Sacramento District Sacramento District	0504999 0505000	Well #16 - Fruitridge	1560-0504999 1560-0505000	Well Well	170.57	506,890
1560	Sacramento District	0505000	Well #8 Light - Fruitridge Well #13 - Fruitridge	1560-0505000	Well	207.90	0
1560	Sacramento District	0505002	Well #20 - Fruitridge	1560-0505001	Well	30,974.21	212,323
1560	Sacramento District	0505003	47th Ave Booster	1560-0505003	Booster	4,769.74	31,838
1560	Sacramento District	0505006	OOOOO Big Sandy Dr	1560-0505006	Well/Booster/Tank	3,258.21	11,895
1560	Sacramento District	0505007	HInds Sub Dv	1560-0505007	Well	2,487.80	8,844
1560	Sacramento District	0505008	Glenn Darry Ct Loc 131 Well 2	1560-0505008	Well	2,978.28	10,342
1560	Sacramento District	0505009	Echo Valley View Court Well 8	1560-0505009	Well	19,790.38	79,575
1560	Sacramento District	0505010	Courtney Drive Off Road 426	1560-0505010	Well/Tank	14,263.46	53,859
1560 1560	Sacramento District	0505011	Meadow Springs Ln Loc 76 Well 3	1560-0505011	Well	2,472.93	8,333
1560	Sacramento District Sacramento District	0505012 0505013	Hwy 49 Next to 39563 Pine Rdg	1560-0505012 1560-0505013	Well/Booster/Tank Booster Tank	15,815.99 146.31	40,586 97
1560	Sacramento District	0505013	Greenwood Way	1560-0505013	Booster Tank	4,590.02	16,603
1560	Sacramento District	0505015	Live Oak Dr	1560-0505015	Booster Tank	8,151.78	30,182
1560	Sacramento District	0505016	Off Darling Wy	1560-0505016	Well/Booster/Tank	317.67	78
1560	Sacramento District	0505017	Sutton Dr	1560-0505017	Well/Tank	41,272.39	174,705
1560	Sacramento District	0505018	Lt 12 & Boulder Pl	1560-0505018	Booster/Tank	582.10	1,759
1560	Sacramento District	0505019	John West Rd	1560-0505019	Tank	202.09	311
1560	Sacramento District	0505020	Bon Veu	1560-0505020	Well	20,881.22	84,973
1560	Sacramento District	0505021	Highland View Ln	1560-0505021	Well/Tank	11,489.74	44,682
1560 1560	Sacramento District Sacramento District	0505022 0505023	RD 426 & Courtney Ln-Public Wate Inidan Spgs Rd	1560-0505022 1560-0505023	Booster Tank Booster/Tank	407.70 252.09	1,094 507
1560	Sacramento District	0505023	Victoria Ln	1560-0505024	Booster Tank	3,447.05	3,828
1560	Sacramento District	0505025	Off Victoria Ln	1560-0505025	Well	4,170.58	6,098
1560	Sacramento District	0505026	Indian Rock Rd #1	1560-0505026	Well	127.74	34
1560	Sacramento District	0505027	Indian Rock Rd #2	1560-0505027	Well	124.55	22
1560	Sacramento District	0505028	Meadow Springs L Loc 24	1560-0505028	Well	1,956.17	6,395
1560	Sacramento District	0505029	Echo Valley View Court Well 7	1560-0505029	Well	23,780.94	97,456
1560	Sacramento District	0505030	NE Cor/O Victoria Ln N Slope Rd	1560-0505030	Well/Booster/Tank	9,064.60	33,370
1560 1560	Sacramento District Sacramento District	0505031	51105 Road 426 48444 Victoria Ln	1560-0505031	Well/Booster/Tank Well	55,445.78	208,656
1560	Sacramento District	0505032 0505033	SE NW NW 21 8 19	1560-0505032 1560-0505033	Well	3,014.82 12,702.90	10,838 48,623
1560	Sacramento District	0505033	Road 600 Valley St	1560-0505033	Well/Booster/Tank	123.75	17
1560	Sacramento District	0505035	Off Rd 600	1560-0505035	Booster Tank	119.60	0
1560	Sacramento District	0505036	32282 Horse Canyon Rd	1560-0505036	Well	153.32	131
1560	Sacramento District	0505037	End of Bon Veu Circle	1560-0505037	Well	8,976.90	33,381
1560	Sacramento District	0505038	Echo Valley View Court Well 6	1560-0505038	Well	15,630.77	58,837
1560	Sacramento District	0505039	Woodside Dr	1560-0505039	Booster Tank	6,849.90	26,015
1560	Sacramento District	0505040	PO Box 2269	1560-0505040	Security Light	149.63	78
1560 1560	Sacramento District Sacramento District	0505041 0505042	DOM WELL SEC 21 8 19	1560-0505041 1560-0505042	Well Well	3,492.10 8,675.84	11,845 32,844
1560	Sacramento District	0505042	Dunnigan Well No. 1	1560-0505042	Well	6,021.10	21,808
1560	Sacramento District	0505045	Alton Arden Booster Statio	1560-0505044	Booster	1,709.40	8,079
1560	Sacramento District	1004534	2772 Meadowbrook 40HP pump	1560-1004534	Well	56.536.19	247,930
1560	Sacramento District	1004535	Maple & Fir – 40 HP pump	1560-1004535	Well	298.96	0
1560	Sacramento District	1004536	Fir & Maple - Chlorine pump	1560-1004536	Well	119.61	0
1560	Sacramento District	1004537	SW Corner Balsam & Poplar	1560-1004537	Well	28,487.43	93,074
1561	Larkfield District	0500152	Larkfield Water Treatmen	1561-0500152	Treatment Plant	43,175.88	168,730
1561	Larkfield District	0500181	Lower Wikiup Tank & Boos	1561-0500181	Booster	6,384.24	22,913
1561	Larkfield District	0500206	North Wikiup Tank & Boos	1561-0500206	Booster	5,187.13	18,086

4/11/2023

California American Water Purchased Water Details All Districts - 2022 General Rate Case

Source Data References

WP\_Purchased Power - Original\_101

Refer to Direct Testimony of Stephen Owens and Bahman Pourtaherian

	1	2	4	5
Filing Type: Final				

						\$	KWH
District #	District Name	Location #	Location Name	Uniqe Identifier	Service Type	Total Cost	Total Usage
1561	Larkfield District	0500316	Upper Wikiup Tank & Boos	1561-0500316	Booster	2,293.34	7,393
1561	Larkfield District	0500333	Well 1A	1561-0500333	Well	7,056.91	25,594
1561	Larkfield District	0500335	Well 3A	1561-0500335	Well	36,785.65	136,856
1561	Larkfield District	0500336	Well 5	1561-0500336	Well	7,571.17	27,311
1561	Larkfield District	0503602	Aqueduct	1561-0503602	Dam	389.93	901
1561	Larkfield District	0504481	Geyserville Merrill Well 1	1561-0504481	Well	4,786.18	17,101
1561	Larkfield District	0504482	Geyserville Chianti Tank	1561-0504482	Tank	171.53	199
1561	Larkfield District	0504483	Geyserville Railroad Ave W	1561-0504483	Well	8,091.02	29,698
End	End	End	End	End	End	End	End

9,182,277.78 49,107,157.39 Check/Tie Out Section Sum Sum of the yearly balance

# Attachment 13: 2019 Pourtaherian Testimony on Chemical Expenses

## 2 3 BEFORE THE PUBLIC UTILITIES COMMISSION 5 OF THE STATE OF CALIFORNIA 6 Application of California-American Water 7 Company (U210W) for Authorization to Increase its Revenues for Water Service by \$25,999,900 or Application 19-07-8 (Filed July 1, 2019) 10.60% in the year 2021, by \$9,752,500 or 3.59% in the year 2022, and by \$10,754,500 or 3.82% in the year 2023. 10 11 12 DIRECT TESTIMONY OF BAHMAN POURTAHERIAN 13 (FINAL APPLICATION) 14 15 Sarah Leeper Lori Anne Dolqueist 16 Nicholas A. Subias Nossaman LLP Cathy Hongola-Baptista 50 California Street, 34th Floor 17 California-American Water Company San Francisco, CA 94111 555 Montgomery Street, Suite 816 Telephone: 415.398.3600 18 San Francisco, ČA 94111 Facsimile: 415.398.2438 Telephone: 415.863.2960 ldolqueist@nossaman.com 19 Facsimile:415.397.1586 Attorneys for Applicant Californiasarah.leeper@amwater.com 20 American Water Company Attorneys for Applicant California-American 21 Water Company 22 23 24 25 26 27 28 Dated: July 1, 2019

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A37.

those years. Similarly, the cost per kwh is calculated by taking the 2018 cost per district and dividing it by 2018's kwh usage. These district costs per kwh are then escalated each year of the rate case cycle. 2018 data were used because they contain the most up to date pricing from power providers and are more representative of the costs to be incurred.

### D. Water Treatment – Chemicals (Account #744)

Q35. How were chemicals forecast for 2021 and 2022?

A35. Chemical costs were calculated based on a five-year inflation adjusted average for all service areas of the company and are included in PUC account 744.

## VI. DEPRECIATION EXPENSE AND AD VALOREM TAXES

Q36. How were the Ad Valorem taxes calculated in the RO model?

A36. Ad Valorem tax rate in RO model is calculated by dividing actual Ad Valorem taxes paid in year 2018 by taxable plant for the same year. Forecasted Ad Valorem tax expense were calculated by multiplying the calculated Ad Valorem tax rates and forecasted taxable plant.

237. How were the estimates for plant depreciation expense calculated?

The current authorized depreciation rates in D.18-12-021 were used to estimate the depreciation expense for 2019 - 2023. The depreciation rates were applied to the average Utility Plant in Service for each of the years 2019 - 2023. California American Water included a depreciation study in A.16-07-002 and no objections were made in the record regarding the study. However, D.18-12-021 rejected it. California American Water had not started preparing a new study due to the lack of objections in A.16-07-002, and the timing of D.18-12-021 did not leave California American Water with sufficient time to prepare a new study. The Company will provide a new depreciation study as part of its 2022 GRC.

# **Attachment 14: Metropolitan Water District** of Southern California Treatment Process





## Protecting Water Quality from Source to Tap

## Safe Drinking Water is Our Mission

If water is life, then there is nothing more important in our daily lives than safe and sustainable water supplies. And there is nothing more important to Metropolitan than safeguarding the quality of drinking water we provide to our 26 member agencies and the communities they serve. To ensure we meet this responsibility, every year we test our water for more than 400 constituents and perform nearly 250,000 water quality tests on samples gathered from throughout our vast distribution system. We invest in the latest and best technology at our Water Quality Laboratory in La Verne and each of our five smaller treatment plant laboratories. And we rely on the expertise of our highly skilled staff from disciplines across the sciences, many of whom are leaders in their fields of research and regulatory compliance.

## Metropolitan's water meets or surpasses all state and federal regulatory requirements.

Our staff oversees treatment operations that enable us to ensure water quality remains well-within state and federal guidelines. We go beyond the minimum requirements and conduct investigations that develop and optimize advanced analytical contaminant detection methods that provide additional operational support and understanding of water quality contaminants that are not regulated.



## Water Quality Reporting

Metropolitan's Water Quality Report is available on our website in <a href="English">English</a>. The annual report provides information on the constituents in water that can affect your health, along with how it looks, smells and tastes. The report lists the maximum levels



allowed by state and federal regulations, and the levels found at our five water treatment plants and throughout our distribution system. The report also includes contact information, along with health advisories for sensitive populations.



## The Mechanics of Treating Water

Before water pours from a tap, it passes through one of our five water treatment plants, which together can disinfect more than 2 billion gallons of water daily, using a five-step treatment process. All of our facilities use ozone as the primary disinfectant. Ozone destroys a wider range of micro-organisms and allows Metropolitan to keep pace with stringent regulations that limit the levels of drinking water disinfection byproducts in water. The result is historically low levels of disinfection byproducts systemwide. Ozone disinfection also provides increased protection from pathogens and improves the taste and smell of water.

Learn more about ozone disinfection here



## Treatment Steps

As water enters the treatment plant, the first step is **Disinfection** and, depending on the source water quality, it may be necessary to add various chemicals to optimize this process. Water is disinfected using ozone primarily, which kills microorganisms, including pathogens

The third step is **Flocculation** as water further mixes with the coagulant chemicals added in the previous step, allowing time for larger suspended particles in the water to bind together and form "floc."

Once the treatment process is completed, chlorine and ammonia are added to the water to form chloramines and maintain a disinfectant residual in the distribution system. This ensures water quality is maintained as supplies travel through the

Y

such as viruses, including SARS-CoV-2, and protozoa such as *Cryptosporidium* and *Giardia*.

As water flows through the ozone contactors, hydrogen peroxide may be added for taste and odor control. If there are any interruptions in the ozone process, chlorine can also be used as a back-up disinfectant and is readily available.

The second step in the treatment process is Coagulation, where chemical coagulants — such as alum (aluminum sulfate) or ferric chloride and polymer — are injected into the water and mixed rapidly using flash jet mixers. The coagulants help unwanted particles stick together, making larger particles that are more easily removed. Water then flows into the mixing and settling basins, where large mechanical mixers or flocculators gently agitate the water.

The fourth step is **Sedimentation**. In this process, the floc particles, which are much heavier than the surrounding water, settle to the bottom of the basin, forming a layer of material that is later removed. In the fifth step, Filtration, filter aid is applied to settled water from the sedimentation basins to help remove particles.

Filters consist of layers of anthracite coal, sand, and gravel filter media. As water passes through, the filters remove smaller particles from the water as well as larger particles that did not settle during the sedimentation process.

distribution system. Caustic soda also is added as a corrosion control measure to adjust the pH level of the water and protect pipes and plumbing fixtures. Fluoride is added to help prevent dental caries as recommended by the U.S. Department of Health and Human Services. Treated water is temporarily stored in finished water reservoirs and distributed to member agency connections.

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## Metropolitan's Treatment Plants



## F.E. Weymouth Water Treatment Plant

The Mission-style Weymouth plant in La Verne began treating and delivering water in 1941. Today, it treats up to 520 million gallons of water per day and is home to Metropolitan's world-renowned Water Quality Laboratory. The plant generally serves eastern Los Angeles County, the San Gabriel Valley and parts of Orange County. It is named for Frank E. Weymouth, the general manager who oversaw construction of the Colorado River Aqueduct (and died just weeks after its completion).

## Robert B. Diemer Water Treatment Plant

The Diemer plant started operation in 1964 and treats as much as 520 million gallons per day. It is the only water treatment plant that generates electricity through a hydroelectric power plant, thanks to the 5.1-megawatt Yorba Linda Hydroelectric Power Plant. It is named for Robert B. Diemer, who built Metropolitan's initial distribution system starting in 1934, and who became general manager from 1952 to 1961. The Diemer plant serves areas of Orange County and coastal Los Angeles.





## Joseph Jensen Water Treatment Plant

Commissioned in 1971, the Jensen plant is the largest such facility west of the Mississippi River, with a capacity of 750 million gallons per day. Treated water from the plant helps supply the San Fernando Valley, Ventura County, West Los Angeles, Santa Monica and the Palos Verdes Peninsula. It is named for Joseph Jensen, Metropolitan's longest serving board chair, serving from 1949 to 1974.

## Robert A. Skinner Water Treatment Plant

The Skinner plant is located in the southwestern corner of Riverside County in the community of Winchester, south of Hemet. Dedicated in 1976, it provides up to 350 million gallons per day to Eastern and Western municipal water districts in Riverside County, and to the San Diego County Water Authority. The plant was named for Robert A. Skinner, an engineer who served as Metropolitan's General Manager from 1962 to



## Henry J. Mills Water Treatment Plant

In 1978, the Mills plant in Riverside came online and treats up to 220 million gallons per day. The smallest of Metropolitan's water treatment plants, it is named for Henry J. "Hank" Mills, who capped a 41-year Metropolitan career by becoming general manager in 1967 until his retirement in 1971. The Mills plant provides water to western Riverside County.

Learn More →

Supporting Innovation with Science

## Attachment 15: City of Sacramento 2020 Urban Water Management Plan

## City of Sacramento 2020 Urban Water Management Plan







JOINTLY PREPARED BY





#### **CITY OF SACRAMENTO WATER SUPPLIES**

The City has the following existing water supplies:

- Surface water diverted from the Sacramento River, which is treated at the Sacramento Water Treatment Plant
- Surface water diverted from the American River, which is treated at the E.A. Fairbairn Water Treatment Plant
- Groundwater pumped from City-owned and operated wells from the underlying North American and South American subbasins

To reliably meet current and future water demands, the City is evaluating several projects to increase the long-term water treatment capacities. The first project the City is considering is the expansion of the Sacramento River Water Treatment Plant. The second project the City is considering is RiverArc project, which is proposed to be a new regional water treatment plant that could benefit the greater Sacramento area.

In addition to considering the Sacramento River Water Treatment Plant expansion or the RiverArc Water Treatment Plant projects, the City's on-going Water Master Plan Update recommends for the City to continue to plan for the rehabilitation of the E.A. Fairbairn Water Treatment Plant and the retrofit of the existing intake at the Sacramento Water Treatment Plant. The City's Groundwater Master Plan recommended for the City to expand its groundwater program.

#### CONSERVATION TARGET COMPLIANCE

In accordance with SB X7-7, the City must meet a per capita water use target of 225 gallons per person per day by 2020 for its water service area. Looking at the City's water service area population and water use in 2020, the City met and exceeded its water conservation target with a per capita water use of 169 gallons per person per day.

### WATER SERVICE RELIABILITY AND DROUGHT RISK ASSESSMENT

The California Water Code requires water suppliers to evaluate their water service reliability by examining the impact of drought on their water supplies and comparing those reduced supplies to water demands. Specifically, agencies should calculate their water supplies during a single dry year and five consecutive dry years using historical records.

The City is well-positioned to withstand the effects of a single dry year and a five-year drought at any period between 2025 and 2045. The City's drought risk was specifically assessed between 2021 and 2025, assuming that the next five years are dry years. In each case, water supplies comfortably exceed water demands. This remains true whether the drought occurs in 2021, 2045, or any year between.



Table 4-7. Wholesale Demands for Potable and Non-Potable Water – Actual (DWR Table 4-1 Wholesale)

Use Type	2020	2020 Actual				
<b>Drop down list</b> May select each use multiple times These are the only use types that will be recognized by the WUE data online submittal tool	Additional Description (as needed)	Level of Treatment When Delivered Drop down list	Volume*			
Add additional rows as needed	Add additional rows as needed					
Sales to other agencies	SCWA - Airport	Drinking Water	712			
Sales to other agencies	SCWA - Zone 50 Metro Air Park	Drinking Water	90			
Sales to other agencies	SSWD - Arden	Drinking Water	390			
Sales to other agencies	Cal Am Arden Drinking W		0			
Sales to other agencies	Cal Am Fruitridge	Drinking Water	267			
Sales to other agencies	Cal Am Parkway	Drinking Water	1,127			
Sales to other agencies Cal Am Rosemont Drinking Water			1,022			
TOTAL 3,607						
* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.						

NOTES: Units are in acre-feet (AF). The City did not deliver water to Natomas Unified School District in 2020.

## 4.3.3 Projected Wholesale Water Use

In the future, the City may expand its role as a wholesaler for the benefit of other water purveyors and their customers in the region. Projected wholesale demands were developed in the on-going Water Master Plan Update and are based on two future supply scenarios: 1) probable estimate of future wholesale demands; and 2) maximum estimate that assumes all water agencies within the American River Place of Use Boundary receive wholesale water. The probable estimate is based on other agencies' master plans, communications that other agencies have had with the City, or by judgment of the City staff, as reported in the City's on-going Water Master Plan Update. As discussed in Chapter 3, the City currently provides wholesale and wheeling service to several neighboring water agencies. A brief description of the POU boundaries is presented in Chapter 3.

For the purposes of this 2020 UWMP, it is assumed that the existing wholesale customers will take the probable estimate by 2030 and assumed that all wholesale customers within the American River POU Boundary will take the maximum estimate by 2040. Projected wholesale demands past 2040 are not expected to change. The interim years are linearly interpolated. Table 4-8 summarizes the projected wholesale customer water use through 2045.



Table 4-12. Retail Last Five Years of Water Loss Audit Reporting (DWR Table 4-4 Retail)

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss <sup>1,2</sup>
07/2015	9,856
07/2016	6,801
07/2017	8,391
07/2018	9,160
07/2019	10,097

<sup>&</sup>lt;sup>1</sup> Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet.

NOTES: Units are in acre-feet (AF). Water loss audits are prepared based on the fiscal year.

Losses from the City's wholesale water distribution system are included in the retail water distribution system reporting. The City's distribution system for retail and wholesale customers is a single system and not separated. Therefore, Table 4-13 assumes a wholesale loss of 0 AF to avoid over counting system losses. In addition, the City's wholesale customers will report their individual system water losses in their UWMPs.

Table 4-13. Wholesale Last Five Years of Water Loss Audit Reporting (DWR Table 4-4 Wholesale)

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss <sup>1,2</sup>		
-	-		
<sup>1</sup> Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet. <sup>2</sup> Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.			
NOTES: Water loss audit reporting for the City's wholesale customers is included in the Retail Water Loss Audit reporting as the City's water distribution system for wholesale and retail customers is a single system.			

At the time of preparation of this UWMP, DWR and the State Water Board are in the process of adopting water loss standards. This is discussed further in Chapter 9.

<sup>&</sup>lt;sup>2</sup> Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

# **Attachment 16: City of Sacramento Drinking Water Source and Treatment**





WATER HOME

WATER QUALITY HOME

WATER TREATMENT PROCESS

WATER QUALITY

DATA PORTAL

**GLOSSARY** 

CONTACT US

#### WHERE YOUR WATER COMES FROM

The City of Sacramento has provided drinking water service since it was founded in 1849.

One of our primary goals is to deliver the highest quality water to our customers, which requires a team of experts from certified treatment and distribution operators to laboratory technicians and chemists.

Staff work 24/7 to provide the highest quality water for residents and businesses in the city.

#### DRINKING WATER SOURCES

About 80 percent of the City's water supply is surface water and comes from the Sacramento and American rivers. The remaining 20 percent of water comes from a system of about 28 groundwater wells that pull water from an underground layer that acts like a reservoir..

Groundwater is treated on site at the wells while surface water is treated at the E.A. Fairbairn and Sacramento River Water Treatment plants located on the American and Sacramento rivers.

After it's treated, drinking water travels through 1,500 miles of pipe to homes and businesses.

Our water quality team routinely monitors your water to ensure it meets regulations set by the U.S. Environmental Protection Agency and State Water Resources Control Board, designed to protect public health and ensure aesthetic qualities.

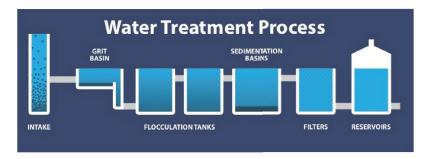


#### THE DRINKING WATER TREATMENT PROCESS

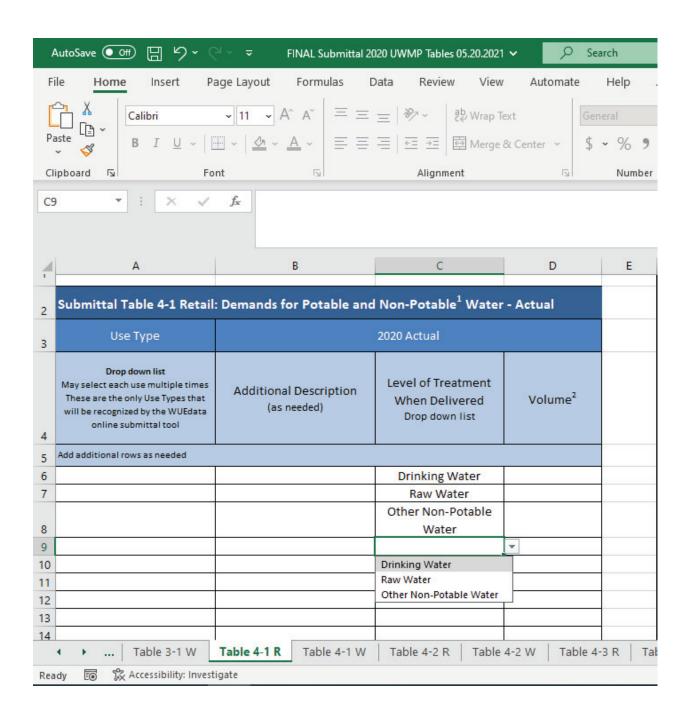
Drinking water in the city goes through a comprehensive treatment process, which removes harmful materials, including sand, sediment, bacteria and viruses

1. **Intake:** Our intake structures on the Sacramento and American rivers pump water into the grit basin.

- 2. **Grit Basin:** Sand and other heavy particles settle out in the grit basin and then water flows from the top of the basin to the next step.
- 3. Flocculation Tanks: In the flocculation tanks, coagulants are added and the water is gently mixed, which causes particles to grow large enough to settle.
- 4. **Sedimentation Tanks:** The water flows into sedimentation basins where particles settle to the bottom, which removes about 85 percent of suspended matter in the water.
- 5. **Filters:** Water is fed through filters of sand and anthracite (hard coal), coming out crystal clear.
- Reservoirs: Our treatment plant reservoirs store water until it is needed.



# **Attachment 17: Department of Water Resources Submittal Table 4-1**



# Attachment 18: Water Loss Performance Standards Draft Regulatory Text

# Water Loss Performance Standards Draft Regulatory Text

Title 23. Waters

Division 3. State Water Resources Control Board and Regional Water Quality Control Boards

Chapter 3.5. Urban Water Use Efficiency and Conservation

Article 1. Water Loss Performance Standards for Urban Retail Water Suppliers

#### § 980. Definitions

As used in this Article:

- (a) "Active leak detection" means a leak control strategy utilizing the appropriate combination of leak detection surveys and continuous monitoring of flowsthe industry approach used to proactively detect and locate leaks in water distribution systems owned or operated by urban retail water suppliers.
- (b) "Annual audit" means the validated annual water loss audit submitted by an urban retail water supplier pursuant to Water Code 10608.34, subdivision (b).
- (c) "Annual background leakage" means is the estimated total fraction of real loss that is not detected by active leak detection in a distribution system, in acre-feet per year. The default value shall be the value calculated in accordance with section 982, subdivision (a)(1).
- (d) "Annual reported leakage" means is the total volume of real loss occurring due to reported leaks on mains and reported leaks in lateral and service lines, in acre-feet per year. Reported leakage is a component of real loss. The default value shall be the value calculated in accordance with section 982, subdivision (a)(2).
- (e) "Annual unreported leakage" means is the average baseline real loss that remains after deducting the annual reported leakage and the annual background leakage from the average baseline real loss, in acre-feet per year. Unreported leakage is a component of real loss. The default value shall be the value calculated in accordance with section 982, subdivision (a)(3).
- (f) "Apparent losses" means losses in customer consumption attributed to inaccuracies associated with customer metering, systematic data handling errors, plus unauthorized consumption (theft or illegal use of water), the type of inaccuracies associated with customer metering and billing inaccuracies, in addition to water loss to theft, as reported in the annual audit as "apparent losses."

- (2) Multiple public water systems that are owned and operated by the same supplier are, together, considered an urban retail water supplier, provided they:
  - (A) Individually serve 200 connections or more;
  - (B) Collectively, meet the criteria in paragraph (1); and
  - (C) Meet one or more of the criteria below:
    - (i) The systems are permanently interconnected;
    - (ii) The service area boundaries are adjacent;
    - (iii) The supplier is using the system's data, such as population or landscape area, to calculate its urban water use objective pursuant to Water Code section 10609.20.
- (eee) "Water from own sources" means the volume of water withdrawn from water resources controlled by the urban retail water supplier as reported by the urban retail water supplier in the annual audit as "volume from own sources."

Authority: Section 1058, Water Code.

References: Article X, Section 2, California Constitution; Sections 116275 and 116902, Health and Safety Code; Sections 102, 104, 105, 350, 516, 1846, 10608.12, and 10608.34, and 10609.2, and 10609.4, Water Code.

#### § 981. Volumetric Water Loss Performance Standards

- (a) No later than January 1, 2028, each urban retail water supplier shall reduce real loss from its distribution systems to no greater than the real water loss standard identified in <a href="mailto:section 982">section 982</a> this article, as reflected in the supplier's reported real loss in its annual audit submitted for 2027.
- (b) If the urban retail water supplier's real loss reported in its 2027 annual audit exceeds the supplier's real water loss standard calculated in accordance with section 982, the supplier will be in compliance with subdivision (a) of this section if the supplier has achieved its real water loss standard as reflected in the real loss levels reported in its annual audit submitted for either 2025 or 2026.
- (c) After 2028, each urban retail water supplier's compliance with its real water loss standard shall be assessed in every third year based on an average of the real losses reported in its three most recent annual audits. A supplier shall maintain, for each compliance assessment, real loss that is no greater than 5 gallons per connection per day above the supplier's real water loss standard.
- (d) At the time compliance with real water loss standards is assessed, apparent losses will also be evaluated. If the average apparent losses for any compliance period are greater than Each supplier's apparent loss standard is the average of the supplier's baseline apparent losses plus an allowed variation of 25 gallons per connection per day. If the average apparent losses for any compliance period are greater than this standard, then the supplier must submit an inventory of all apparent losses. and any calculations and data used to determine apparent losses for that compliance period within 6 months of being informed by the State Water Board of exceeding the apparent losses standard.
  - (1) The apparent losses inventory shall include any calculations and data used to determine apparent losses for the water loss audits spanning the compliance

- period for which the standards have been evaluated. Each inventory item shall include the type of apparent loss (for example, metering inaccuracies, data handling errors, theft), the estimated volume of loss, and how each value was determined (for example, direct measurement, calculation based on specific equation(s), visual estimate).
- (2) The apparent losses inventory must be submitted on a spreadsheet readable by the Board within 6 months of the supplier being informed by the Board that the supplier has exceeded its apparent loss standard. The Board will make a template available on its website.
- (e) An urban retail water supplier's real water loss standard may be adjusted to include changes to the default parameter inputs identified in section 982(c), pursuant to section 984.
- (f) An urban retail water supplier may calculate the average baseline real loss using three out of the four years of the baseline period by removing an outlier value that varies by over 10 gallons per service connection per day from the each of the adjacent values for the other three years or that is negative. If one year of real loss is removed from a supplier's calculated baseline real loss, that same year must be removed from the baseline average length of mains, average service connections, average operating pressure, average variable production cost, and average apparent loss calculations.
- (g) In accordance with section 985, an urban retail water supplier may seek approval of a variance to its real water loss standard in response to unexpected adverse conditions and to its apparent water loss standard if apparent loss data quality improves.
- (h) An urban retail water supplier whose service area meets the following criteria shall achieve compliance with this section no later than January 1, 2031:
  - (1) The service area has a disadvantaged communities (DAC) or severely disadvantaged communities (SDAC) designation owing to the median household income of the supplier's service area being less than or equal to 80 percent of the median household income of California per the median household income determination conducted by the board:
  - (2) The service area has a calculated benefit to cost ratio until 2028, pursuant to section 982, subdivision (a)(24), of less than 2; and
  - (3) The urban retail water supplier's real water loss standard calculated pursuant to section 982, subdivision (b) is lower than the supplier's average baseline real loss by 25% or more.
- (i) Suppliers that do not meet their <u>realwater</u> loss standard by January 1, 2028, will be considered in compliance for the first compliance period if:
  - (1) The supplier's real water loss standard is lower than the supplier's average baseline real loss by 30% or more;
  - (2) The supplier's 2025, 2026, or 2027 water loss audits show progress as a reduction of real loss by at least 30% of the difference between the average baseline real loss and the real water loss standard;
  - (3) The supplier's data validity scores are at Level 3 or the supplier has demonstrated improving data validity scores. When determining eligibility, consideration will be given to data validity score reductions related to

- water audits prepared using different versions of the water auditing software:
- (4) The supplier has completed <u>one</u>two full cycle of leak detection surveys;
- (5) The supplier has submitted a written request for this compliance pathway to the Board and received approval prior to January 1, 2028. The request shall include:
  - (A) Why the supplier was unable to meet its real water loss standard;
  - (B) A list of leakage prevention activities the supplier has engaged in to prevent water loss:
  - (C) How the supplier is being a good steward with respect to other pieces of Water Code, division 6, part 2.55, chapter 9; and
  - (D)A plan for how it will meet its real water loss standard no later than January 1, 2031.
- (j) For systems that do not meet the criteria to be considered an urban retail water supplier in section 980(ccc) until after the effective date of this section, this section applies beginning five (5) years after the system meets the criteria to be considered a supplier, except that the supplier must submit annual water loss audits starting with data for the first full year (calendar year or fiscal year, depending on how the supplier chooses to report its audits) it meets the criteria to be considered a supplier.
  - (1) The baseline period for suppliers subject to this subdivision consists of the first four years of submitted data.
  - (2) For suppliers subject to this subdivision, compliance with their real water loss standards will be assessed pursuant to subdivision (c) at the end of the first full compliance period after the standard is assigned except that if there is less than one full year between the standard being assigned and the start of the first full assessment period, compliance will be assessed at the end of the next full compliance period.

Authority: Sections 1058, 10608.34, Water Code.

References: Article X, Section 2, California Constitution; Section 116275, Health and Safety Code; Sections 102, 104, 105, 350, 516, 1846, 10608.12, and 10608.34, Water Code.

#### § 982. Economic Model

- (a) Except as provided in subdivision (d), each urban retail water supplier's real water loss standard shall be based on the formula identified in subdivision (b), with the following inputs based on each supplier's own data or the default value:
  - (1) Annual background leakage: Annual background leakage shall be calculated as follows:

$$\begin{pmatrix} 0.2 \left[ \frac{thous and \ gallons}{mile \cdot day} \right] \times \text{Length of mains } [miles] \\ +0.008 \left[ \frac{thous and \ gallons}{service \ connection \cdot day} \right] \times \textit{Number of service connections} \\ \times \left( \frac{\text{Average operating pressure } [psi]}{70[psi]} \right)^{1.5} \times \text{Infrastructure Condition Factor} \\ \times \left[ \frac{1,000 \ gallons}{thous and \ gallons} \right] \times \left[ \frac{1 \ acre - foot}{325,851 \ gallons} \right] \times \left[ \frac{365 \ days}{year} \right]$$

#### (2) Annual reported leakage:

Annual reported leakage:
Annual reported leakage shall be calculated as follows:
$$50 \left[ \frac{gallons}{leak \cdot minute} \right] \times \left[ \frac{1 \ acre - foot}{325,851 \ gallons} \right] \times 0.2 \left[ \frac{leaks}{mile} \right]$$

$$\times \text{ Length of mains}[miles] \times \left[ \frac{60 \ minutes}{hour} \right] \times \left[ \frac{24 \ hours}{day} \right] \times 3 \left[ \frac{days}{year} \right]$$

$$+7 \left[ \frac{gallons}{leak \cdot minute} \right] \times \left[ \frac{1 \ acre - foot}{325,851 \ gallons} \right]$$

$$\times 0.75 \left[ \frac{leaks}{thous and \ service \ connections} \right] \times \left[ \frac{thous and \ service \ connections}{1,000 \ service \ connections} \right]$$

$$\times \text{ Number of service connections} \times \left[ \frac{60 \ minutes}{hour} \right] \times \left[ \frac{24 \ hours}{day} \right] \times 8 \left[ \frac{days}{year} \right]$$

#### (3) Annual unreported leakage:

Annual unreported leakage shall be calculated by deducting annual background leakage and annual reported leakage from average baseline real loss.

#### (4) Months taken to survey whole system:

Months taken to survey whole system shall be calculated by dividing average length of mains by average leak detection survey frequency.

#### (5) Part of system:

Each part represents the amount of the system that can be surveyed each month, such that the number of parts in a system is equal to the number of months needed to survey the whole system.

#### (6) Unreported leakage per part of system:

Unreported leakage per part of system shall be calculated by dividing annual unreported leakage by months taken to survey whole system.

#### (7) Rate of rise of leakage per part of system:

Rate of rise of leakage per part of system shall be calculated by dividing rate of rise of leakage by months taken to survey whole system.

(8) Monthly water lost due to backlog of unreported leakage: Monthly water lost due to backlog of unreported leakage shall be calculated as follows:

(Months taken to survey whole system - month of implementation + 1)

× Unreported leakage per part of system ×  $\left(\frac{1 \ year}{12 \ months}\right)$ 

(9) Monthly water lost from rising leakage in never surveyed parts of the system: Monthly water lost from rising leakage prior to first leak survey shall be calculated as follows:

(Months taken to survey whole system - month of implementation + 1)

$$\begin{array}{c} \times \text{Rate of rise in leakage} \begin{bmatrix} acre - feet / year^2 \\ \hline month \end{bmatrix} \\ \times \left( \begin{array}{c} \text{month of implementation} & \frac{1}{2} \\ \end{array} \right) \times \left( \begin{array}{c} 1 \ year \\ 12 \ months \\ \end{array} \right)^2 \\ \end{array}$$

 $(\textit{Months taken to survey system} - \textit{Month of Implementation} + 1)[\textit{months}] \times \textit{Average annual rise in leakage}$ 

 $\times$  (12 months since the end of 2020 + Month of implementation - 0.5)[months]  $\times$ 

- (10) Monthly water lost from rising leakage in previously surveyed parts of the system:
  - (A) Before one full leak detection survey has been completed, the monthly water lost from rising leakage in previously surveyed parts of the system shall be calculated as follows:

Rate of rise in leakage 
$$\left[\frac{acre - feet/year^2}{month}\right] \times \left(\frac{1 \ year}{12 \ months}\right)^2 \times \frac{(month \ of \ implementation - 1)^2}{2}$$

(B) After the entire system has been surveyed once, the monthly water lost from rising leakage in previously surveyed parts of the system shall be calculated as follows:

Rate of rise in leakage 
$$\left[\frac{acre - feet}{year^2}\right] \times \left(\frac{1 \ year}{12 \ months}\right)^2$$
months taken to survey whole system<sup>2</sup>

months taken to survey whole system<sup>2</sup>

Monthly unreported real loss with intervention:

Monthly unreported real loss with intervention shall be the sum of monthly water lost due to backlog of unreported leakage, monthly water lost from

rising leakage in never surveyed parts of the system, and monthly water lost from rising leakage in previously surveyed parts of the system.

(12) Monthly unreported real loss without intervention:

Monthly unreported real loss without intervention shall be calculated as follows:

$$\frac{\left( \begin{array}{c} \text{Unreported leakage per part of system} \times \left( \frac{1 \ year}{12 \ months} \right) \\ \times \left( \begin{array}{c} \text{Unreported leakage per part of system} \left[ \frac{acre - feet}{year} \right] + \text{Rate of rise in leakage} \left[ \frac{acre - feet}{year^2} \right] \\ \times \left( \begin{array}{c} \text{Month of implementation} \\ \end{array} \right] \times \left( \begin{array}{c} 1 \ year \\ 12 \ months \end{array} \right) \\ + \left( \begin{array}{c} \text{Rate of rise in leakage} \left[ \frac{acre - feet}{year} \right] \times \left( \frac{1 \ year}{12 \ months} \right) \\ \end{array} \right) \\ + \left( \begin{array}{c} \text{Rate of rise in leakage} \left[ \frac{acre - feet}{year^2} \right] \times \left( \frac{1 \ year}{12 \ months} \right)^2 \times 12 \ months \ since \ the \ end \ of \ 2020 \right) \\ \end{array} \right)$$

(13) Water saved in month of implementation:

Water saved in month of implementation shall be calculated by deducting monthly unreported real loss with intervention from monthly unreported real loss without intervention.

(14) Marginal avoided cost of water:

(A) At the beginning of 2022, the marginal avoided cost of water shall be calculated as follows:

Avoided cost of alternative supplies 
$$\times \left(1 + \text{Rise in price of water} \left[\frac{\text{core-feet}}{\text{month}}\right] \times \left(\frac{1 \text{ year}}{12 \text{ month}}\right)^2 \times 24 \text{ months from } 2020\right)$$

(B) After 2022 begins, the marginal avoided cost of water shall be calculated as follows:

(15) Value of water loss reduced in each month:

Value of water loss reduced in each month shall be calculated as follows:

(water loss occuring without intervention - water loss occuring with intervention)
× Marginal cost of water in each time step

(16) Present value of water loss reduced each month:

Present value of water loss reduced each month shall be calculated as follows:

$$\frac{\text{Future value of water reduced}}{\left(1 + \text{discount rate } \times \frac{1 \ year}{12 \ months}\right)^{\text{month of implementation}}}$$

(17) Cost of leak detection during each month:

Cost of leak detection during each month shall be the product of average leak detection survey frequency in miles surveyed each month and average cost of leak detection surveying per mile.

- (18) Initial leakage level for part surveyed each month:
  - (A) Before one full leak detection survey has been completed, then unreported leakage per month shall be calculated as follows:

Unreported leakage per month shall be calculated as the unreported leakage per part of system 
$$\left[\frac{acre-feet}{year}\right]$$
 + month of implementation  $\times \left(\frac{1\ year}{12\ months}\right)$   $\times$  Rate of rise in leakage  $\left[\frac{acre-feet}{year^2}\right]$ 

(B) After the entire system has been surveyed once, unreported leakage per month shall be calculated as follows:

$$\text{Rate of rise in leakage} \left[ \frac{acre - feet}{year^2} \right] \times \left( \frac{1 \ year}{12 \ months} \right) \times \text{Months taken to survey whole system}$$

(19) Average volume per leak per year:

Average volume per leak per year shall be calculated as follows:

(20) Volume of leakage from mains:

Volume of leakage from mains per leak per year shall be calculated as follows:

Estimated average flow rate for unreported leaks on mains  $\left[\frac{gallons}{minute}\right]$   $\times \left(\frac{60 \text{ minutes}}{1 \text{ hour}}\right) \times \left(\frac{24 \text{ hours}}{1 \text{ day}}\right) \times \left(\frac{365 \text{ days}}{1 \text{ year}}\right) \times \left(\frac{1 \text{ acre} - foot}{325,851 \text{ gallons}}\right)$ 

(21) Volume of leakage from service connections:

Volume of leakage from service connections per leak per year shall be calculated as follows:

Estimated average flow rate for unreported leaks on service connections  $\frac{[gallons]}{[minute]} \times \left(\frac{60 \text{ minutes}}{1 \text{ hour}}\right) \times \left(\frac{24 \text{ hours}}{1 \text{ day}}\right) \times \left(\frac{365 \text{ days}}{1 \text{ year}}\right) \times \left(\frac{1 \text{ acre} - foot}{325,851 \text{ gallons}}\right)$ 

(22) Leaks found per part of the system:

Leaks found per part of the system is calculated for each month as follows:

PART OF THE SYSTEM IS CAICULATED FOR 6

Annual unreported leakage
(Number of total unreported leaks on mains and service connections)

 $\left(\frac{(Initial\ Leakage\ Level\ for\ part\ surveyed\ each\ month\ [acre-feet/year])}{Average\ Volume\ per\ Leak}\left[\frac{acre-feet/year}{leak}\right]\right)$ 

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#### (23) Cost of leak repair during each month:

Cost of leak repair during each month shall be calculated as follows:



Unreported leakage per month

Annual unreported leakage

Efficiency of leak detection equipment)

- -x (Number of unreported leaks on mains
- × Average unit leak repair cost for mains
- Humber of unreported leaks on laterals and service lines
- -× Average unit leak repair costs for laterals and service lines per leak)

#### (24) Total leak detection and repair cost for each month:

Total leak detection and repair cost for each month shall be the sum of cost of leak detection during each month plus cost of leak repair during each month.

#### (25) Present value of cost for each month:

Present value of cost for each month shall be calculated as follows:

$$\frac{\text{Future cost of leak detection and repair}}{\left(1 + \text{discount rate } \times \frac{1}{12} \textit{years}\right)^{\text{month of implementation}}}$$

#### (26) Present value of net benefit in month of implementation:

Present value of net benefit in month of implementation shall be calculated by deducting present value of cost for each month from present value of benefit for each month.

#### (27) Present value of net benefit over 30 years:

Present value of net benefit over 30 years is the sum of present value of net benefit in month of implementation summed from January 1, 2022, through December 31, 2051.

#### (28) Benefit to cost ratio until 2028:

The Benefit to cost ratio until 2028 is the sum of present value of benefit for each month from January 2022 through December 2027 divided by the sum of the <u>p</u>Present value of cost for each month from January 2022 through December 2027.

(b) Each urban retail water supplier's real water loss standard shall be as follows: (1) If the present value of net benefit over 30 years is negative, the real water loss standard is increased to the point at which the present value of the net benefit is positive, if possible. If a non-negative net benefit is not possible, the real water loss standard is equal to the average baseline real loss.

- (2) If the present value of net benefit over 30 years is zero or positive, the real water loss standard is equal to the sum of annual background leakage plus annual reported leakage plus unreported leakage for 2027.
- (c) For purposes of subdivision (a) of this section, each input value, except real discount rate, average annual rise in price of water, and effective timeline for lifecycle benefit-cost analysis, shall be either the default value identified in section 980, or the supplier's own value if adequately supported by documentation submitted to the board. Average annual rise in price of water shall be either the default value identified in section 980 or the supplier's own value if the requirements in section 984 subdivision (b) are met. If the board concludes that any specific value used by a supplier is not adequately supported by documentation, the board shall promptly communicate that deficiency to the supplier with a timeline within which to cure the deficiency.
- (d) (1) Suppliers may apply for a real water loss standard of 16 gallons per connection per day if the supplier has an average baseline real loss of 16 gallons per connection per day or less and The real water loss standard for an urban retail water supplier whose average baseline real loss is 16 gallons per connection per day or less, or, for an urban retail water supplier that reports real loss in gallons per mile per day in the annual audit, 1,184 gallons per mile per day or less, is not less than 16 gallons per connection per day, or, for an urban retail water supplier that reports real loss in gallons per mile per day in the annual audit, 1,184 gallons per mile per day, assessed on a three year average basis every three years beginning 2028, if the supplier also meets the following criteria for its annual audits:
  - (A) The supplier does not show a year-to-year variability higher than 10 gallons per connection per day for suppliers reporting in gallons per connection per day or 740 gallons per mile per day for suppliers reporting in gallons per mile per day for real loss on any annual audit for the years used to calculate the average real loss pursuant to paragraph (3) of this subdivision-2017, 2018, 2019, and 2020.
  - (B) For a supplier that has reported a negative value for theits real loss for any of the years <u>used to calculate the average real loss pursuant to paragraph</u>
    (3) of this <u>subdivision</u>2017, 2018, 2019, or 2020, it has identified the cause for the negative value and <u>documented</u> the steps taken to correct it.
  - (C) The supplier's water from own sources, imported water, and exported water are completely metered.
  - (D) If the supplier's water from own sources is greater than 5% of the total water supplied, the supplier demonstrates that meters measuring at least 95% of the total produced volume are tested on at least an annual basis.
  - (E) If the supplier's imported water volume is greater than 5% of the total water supplied, the supplier demonstrates that meters measuring at least 95% of the total imported volume are calibrated on at least an annual basis.

- (F) If the supplier's exported water volume is greater than 5% of the total water supplied, the supplier demonstrates that meters measuring at least 95% of the total exported volume are tested on at least an annual basis.
- (G)All customer accounts, excluding those providing fire-flow, are metered, with at least 90% success rates in meter reading.
- (H) A statistically significant sample of customer meters, as determined by the supplier, or 300 meters, whichever is lower, are tested annually.
- (I) If the unbilled metered water volume is higher than 1% of the total water supplied, the supplier reads the meters for accounts that are supplied through unbilled metered water accounts at the same or greater frequency as the supplier reads the meters for the majority of customers.
- (2) This subdivision shall only apply to urban retail water suppliers that submit, on or before January 1, 2023, supporting documentation to demonstrate they meet the real loss and data quality criteria of this subdivision. If a supplier that would otherwise meets the above-criteria of this subdivision, except that it is unable to meet the criteria for subdivision (d)(1) paragraphssections (D), (E), or (F) of subdivision (d)(1) due to aspects outside of its control, such as not having access to calibrate water meters owned by other entities or not being able to move large meters, then it may petition to be exempted from criteria involving only those aspects outside of their control. This petition may be granted at the discretion of the Board and may include provisions, such as a requirement to calibrate rather than test a meter or to request in writing that water meters be tested and/or calibrated by the entities that own them.
- (3) For the purposes of this subdivision, average real loss shall be calculated using the following years of data:
  - (A) The original baseline period, which consists of data for the years 2017, 2018, 2019, and 2020, provided the submission is received by July 1, 2023; or
  - (B) <u>Data for any three consecutive years</u>, provided those years are within five years of the submission date.
- (4) An urban retail water supplier whose average real loss reported for the years 2021 and 2022 is 16 gallons per connection per day or less, or, for an urban retail water supplier that reports real loss in gallons per mile per day in the annual audit, 1,184 gallons per mile per day or less, shall maintain real loss at or not less than 16 gallons per connection per day, or, for an urban retail water supplier that reports real loss in gallons per mile per day in the annual audit, 1,184 gallons per mile per day, assessed on a three year average basis every three years beginning 2028, provided that the supplier also meets the criteria identified in subdivision (d)(1) of this section in its annual audits, except that for subdivisions (d)(1)(A) and (B) the supplier's data shall be for the years 2021 and 2022.
- (4) This subdivision shall only apply to urban retail water suppliers that submit supporting documentation to demonstrate that their average baseline real

loss is 16 gallons per connection per day or less and that they have met the data quality criteria of this subdivision. Submissions on or before July 1, 2023, will take effect immediately. Submissions received after July 1, 2023, will take effect in the next compliance period, exempting suppliers from the reporting requirements in section 983 for subsequent compliance periods.

Authority: Sections 1058, 10608.34, Water Code.

References: Article X, Section 2, California Constitution; Section 116275, Health and Safety Code; Sections 102, 104, 105, 350, 516, 1846, 10608.12, and 10608.34, Water Code.

#### § 983. Questionnaires and Reporting Requirements

- (a) Each urban retail water supplier, except those meeting the criteria in section 982, subdivision (d), shall submit responses to specific questions developed by the board on metering practices and data handling that influence data quality for water loss audits by July 1, 2023. Questions shall solicit information on the following:
  - (1) The proportion of source/production water withdrawals that is metered
  - (2) The program for regular flow testing of its production and source meters for accuracy
  - (3) Frequency with which source meters are tested
  - (4) The program for regular electronic calibration of secondary instrumentation that supports source or production meters, including the frequency of calibration
  - (5) The proportion of authorized consumption that is measured by customer meters
  - (6) The program for regular flow testing of customer meters for accuracy
  - (7) Frequency with which customer meters are flow tested to determine accuracy
  - (8) Types of data handling and billing errors identified in the prior year
- (b) Each urban retail water supplier, except those meeting the criteria in section 982, subdivision (d), shall submit responses to specific questions developed by the board on pressure management practices and associated estimated real loss reduction that influence data quality for water loss audits by July 1, 2023, and updated responses by July 1, 2026. Questions shall solicit information on the following:
  - (1) Devices used to control pressure transients in the water distribution system
  - (2) Inspection, maintenance and repair of devices installed for controlling pressure transients in the distribution system
  - (3) Inspection, maintenance and repair of pressure reducing/modulating valves in the distribution system
  - (4) Frequency with which each device for controlling pressure transients is inspected
  - (5) Portions of the system that have high operating pressure
  - (6) Potential for reducing or modulating pressure to reduce leakage
  - (7) For update response due by July 1, 2026, approach to reduce leakage in high leakage zones

# **Attachment 19: Fact Sheet on Water Loss Performance Standards**



## **Fact Sheet**

#### **Water Loss Performance Standards**

#### **Regulatory context**

Water Code section 10608.34, subdivision (i), (Senate Bill 555, 2015) directs the Board to "adopt rules requiring urban retail water suppliers¹ to meet performance standards for the volume of water losses." Pursuant to this law, urban retail water suppliers have been annually submitting water loss audits to the Department of Water Resources since October 2017. Additionally, urban retail water suppliers are required to calculate an <a href="urban water use objective">urban water use objective</a> that includes indoor, outdoor, commercial, industrial and institutional irrigation uses and allowed water loss by 2024 (AB 1668 and SB 606, 2018).

#### **Proposed regulation**

The proposed regulation consists of the following pieces: **Compliance** 

#### January 1, 2028

- Each urban retail water supplier will be required to comply, by 2028, with an
  individualized volumetric water loss standard based on real loss<sup>2</sup>, using the
  economic model developed by the State Water Board and the supplier's own unique
  data. Several alternative compliance pathways are included, such as for
  disadvantaged communities under certain circumstances.
- Post-2028 compliance with volumetric water loss standards will be assessed every
  three years based on the average of the supplier's real loss from the preceding three
  years, with an allowed variation of 5 gallons per connection per day above the
  supplier's water loss standard.
- Suppliers may comply with the standard by demonstrating a real loss value at or below the standard in either their 2026 or 2027 water loss audit.

#### January 1, 2023

Suppliers that have already achieved low levels *real* loss (under 16 gallons per connection per day or 1184 gallons per mile per day, depending on how the supplier

<sup>&</sup>lt;sup>2</sup> Real loss is the physical loss of water from water distribution systems, as opposed to apparent losses, which are revenue losses due to meter inaccuracies, billing errors or unauthorized consumption.





<sup>&</sup>lt;sup>1</sup> Urban retail water suppliers directly supply potable municipal water to more than 3,000 connections or more than 3,000 acre-feet of potable water annually.

### **Fact Sheet**



reports real loss) based on high quality data (per criteria determined by the State Water Board) would not be required to submit responses to questionnaires on water loss-specific information or further reduce water loss. These suppliers will be required to maintain losses at or below 16 gallons per connection per day or 1184 gallons per mile per day, depending on how the supplier *reports* real loss.

#### January 1, 2023

Other than suppliers meeting the low water loss and high data quality standards prior to 2023, suppliers will be required to submit responses to questionnaires on water loss data quality.

#### July 1, 2024; and update in July 1, 2027

Other than suppliers meeting the low water loss and high data quality standards prior to 2023, suppliers will be required to submit responses to questionnaires on:

Pressure management, and systematic asset management (in 2024 and 2027).

#### Audit data and adjustments to model inputs

#### Formal rulemaking process and March 1 to July 1, 2023

- A supplier may discard outliers or negative values and use three out of the four
  years of audit data (2017-2020 audits) to establish their average baseline water loss.
  A reported real loss value for a year that varies more than 10 gallons per connection
  per day or 740 gallons per mile per day, depending on how the supplier reports real
  loss, from the data reported in each of the remaining years used to calculate the
  baseline real loss would qualify as an outlier.
- Suppliers may, no later than July 1, 2023, provide the State Water Board new data from initial implementation to request an adjustment to their water loss standard.

#### Urban water use objective

#### January 1, 2024

Suppliers calculate their <u>urban water use objective</u> (pursuant to AB 1668 and SB 606, 2018), including a volume of water based on their water loss standard, which may be prorated until 2028 by the supplier.

#### **Variances**

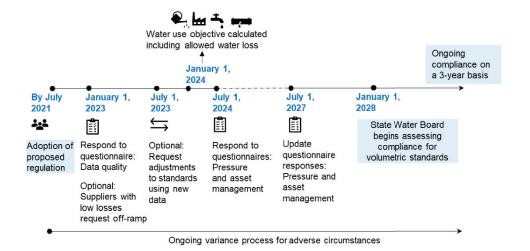
#### Adverse circumstances

Suppliers may use the variance process in response to certain unexpected adverse circumstances that impact compliance.

#### January 1, 2031

Suppliers serving disadvantaged communities with smaller benefit-to-cost ratios for their water loss standard, as identified through the economic model, will have until 2031 to achieve their standard.





### Regulatory timeline

- · A 45-day comment period begins when formal rulemaking is initiated.
  - Staff workshop prior to comment period to overview the current draft model and proposed regulatory framework, and answer questions. Staff will provide guidance on using the model and where supporting documentation may be needed as a matter of data quality for certain inputs.
  - Suppliers may enter data in the model and provide the model with entered data to State Water Board staff during the comment period with supporting justification.
  - o Peer review concurrent with formal comment period
- Post 45-day comment period
  - Staff review public comments and peer review comments and, if needed, revise draft model and draft proposed framework
  - Subsequent 15-day comment periods if needed on any changes
- Tentative adoption between March and July 2021
- Regulation in effect by October 2021

#### Pre-rulemaking stakeholder process

Since early 2018, State Water Board staff have engaged with stakeholders during development of this regulatory proposal. The proposed regulation, including the economic model, have been informed by stakeholder feedback through seven pre-



rulemaking public workshops, two pre-rulemaking comment periods, focused stakeholder calls, and individual meetings. The formal rulemaking process will involve further public and stakeholder engagement and opportunity to comment before the regulation is considered by the Board for adoption and subsequently submitted to the Office of Administrative Law for approval.

#### **Background**

The proposed regulation would require the State's approximately 415 larger urban water suppliers, that together serve approximately 36 million people (over 90% of California's population), to meet individual volumetric water loss standards determined through a water system-specific economic model developed by the State Water Board. An average urban water supplier in California loses about 34 gallons per day from leakage from each service connection, equivalent to about 326,000 acre-feet or 106 billion gallons annually. The proposed water loss standards are anticipated to reduce water loss statewide by about 40%, reduce energy use for water treatment, improve infrastructure maintenance, and prevent breaks that cause property damage and water outages.

The State Water Board allocated \$3.2 million in 2016 for technical assistance for water loss auditing to improve data quality. Staff from nearly every urban water supplier participated in the technical assistance program. State Water Board staff have been using the data reported by suppliers to the Department of Water Resources to create the economic model and proposed regulation. This model will be peer reviewed by a third-party expert panel.

(This fact sheet was last updated on November 18, 2020)

## **Attachment 20: SWRCB Water Loss Website**



Home Conservation Water Loss Control

### Water Loss Control

California Water Code Section 10608.34 requires the State Water Board to develop water loss performance standards for urban retail water suppliers. Executive Orders B-37-16 and B-40-17 direct the State Water Board and Department of Water Resources (DWR) to minimize water waste through system leaks.

### **Rulemaking Status**

- This rulemaking started December 24, 2021.
- A Board Hearing will be held on October 19, 2022
  - Text of Proposed Regulations as of 10/14/2022
  - o Draft Response to Comments
- Rulemaking documents will be posted in the Complete Rulemaking File as they are released.
- Inquiries regarding the contents of this regulation may be directed to Beti Girma (Beti.Girma@Waterboards.ca.gov).
- The Board Hearing will be on February 10, 2022 at 2pm.

#### Quick Links

Contacts

Water Loss Auditing Technical Assistance Pre-rulemaking Meetings-Workshops Resources Fact sheet (PDF)

https://www.waterboards.ca.gov/conservation/water\_loss\_control.html

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### Water Loss Model, Standards, and Questionnaires

Updated Water Loss Model (Released September 2, 2022)

Model Equation Changes (Released September 2, 2022)

Individual System Water Loss Standards (Released September 9, 2022)

#### Questionnaires

- 1. Data Quality
- 2. Asset Management
- 3. Pressure Management

#### **CEQA**



View the CEQA Negative Declaration.

### Documents Released for August 17th Board Meeting

- Draft Regulation Text (Released August 8, 2022)
- Updated Model and Standards

### Staff Workshop on January 11, 2022

https://www.waterboards.ca.gov/conservation/water\_loss\_control.html



# Water Loss Performance Standards Workshop - January 11, 2022 (YouTube)

Purposed of Workshop

- To explain the proposed regulation and standards
- To communicate the ways interested parties can be involved in the formal rulemaking process
- To explain how suppliers can submit updates to default data
- To answer quesitons

#### **Peer Review**

A peer review of the Economic Model was completed on December 28, 2020. Both the Peer Review and Staff's Summary and Responses to the Peer Review are available.

#### Directions for Updating Default Parameters

Default parameters in the Economic model may be updated to incorporate supplier-specific information. While updates may be submitted until July 1, 2023, we are asking that suppliers submit requests as soon as possible. An updated guidance document is available for reference.

☑ To submit a request, please email ORPP-WaterLossControl@Waterboards.ca.gov.

https://www.waterboards.ca.gov/conservation/water\_loss\_control.html

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# Attachment 21: 2022-12-07 A2207001 CAW Response Cal Adv TGE 15

# BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) for Authorization to Increase its Revenues for Water Service by \$55,771,300 or 18.71% in the year 2024, by \$19,565,300 or 5.50% in the year 2025, and by \$19,892,400 or 5.30% in the year 2026.

A.22-07-001 (Filed July 1, 2022)

### CALIFORNIA-AMERICAN WATER COMPANY'S RESPONSE TO PUBLIC ADVOCATES OFFICE'S DATA REQUEST TGE 15

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Lori Anne Dolqueist Willis Hon Nossaman LLP 50 California Street 34<sup>th</sup> Floor San Francisco, CA 94111 (415) 398-3600 Idolqueist@nossamna.com

Attorneys for California-American Water Company

Dated: December 7, 2022

#### California-American Water Company

#### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Patrick Pilz

Title: Senior Field Manager, Operations

Address: California American Water

655 West Broadway, #1410

San Diego, CA 92101

Cal Adv Request: A2207001 CAL ADV DATA REQUEST # TGE 15

Company Number: Cal ADV TGE 15 Q001

Date Received: November 21, 2022

Date Response Due: December 7, 2022

Subject Area: Water Loss Performance

#### **DATA REQUEST:**

Please refer to Patrick Pilz's testimony as found in the pdf file titled "Pilz Direct Testimony CAW 2022 GRC Final App" for the following questions. These questions pertain specifically to Pilz's testimony in Section X. Water Loss Performance Standards, and in Attachment 7.

- 1. Snapshot #1 below shows a portion of the summary of expenses for capital expenses and operational expenses as found in Attachment 7 (pages 195-196 per Adobe PDF Reader). Cal Am estimates a \$250,000.00 expense in each Cal Am District for "Water Loss Consulting."
  - a. Please provide invoices, contracts, and other relevant documents that support the estimated expense of \$250,000.00 for each of the six Cal Am Districts.

#### Snapshot #1

Sum of Cost	Colu	mn Labels						
Row Labels	Larkfield		Los Angeles		Monterey		Sacramento	
Cap-Ex	\$	39,755.27	\$	1,955,693.17	\$	336,790.73	\$	1,908,145.12
Customer Meter Testing and Replacement	\$	6,375.00	\$	204,000.00	\$	102,000.00	\$	306,000.00
Pressure Management - PRV Maintenance & Repair	\$	-	\$	20,862.00	\$	94,748.25	\$	11,300.2
Proactive Main/Service Repair due to Leak Detection Findings	\$	33,380.27	\$	1,721,899.17	\$	122,178.48	\$	1,523,854.8
Production Meter Replacement	\$	-	\$	8,932.00	\$	17,864.00	\$	66,990.0
Op-Ex	\$	299,214.50	\$	730,839.76	\$	722,964.02	\$	1,186,522.93
Customer Meter Testing and Replacement	\$	1,250.00	\$	40,000.00	\$	20,000.00	\$	60,000.0
Leak Detection	\$	34,564.50	\$	383,519.76	\$	289,744.02	\$	706,882.93
Pressure Management - Pressure reduction	\$	12,500.00	\$	12,500.00	\$	12,500.00	\$	12,500.0
Pressure Management - PRV Maintenance & Repair	\$	(-)	\$	25,920.00	\$	117,720.00	\$	14,040.0
Production Meter Testing	\$	900.00	\$	18,900.00	\$	33,000.00	\$	143,100.00
Water Loss Consulting	\$	250,000.00	\$	250,000.00	\$	250,000.00	\$	250,000.0
Grand Total	\$	338,969.77	\$	2,686,532.93	\$	1,059,754.75	\$	3,094,668.0

#### California-American Water Company

#### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

- Snapshot #2 below highlights a portion of a table found in Attachment
   (page 205 per Adobe PDF Reader). This table shows a \$380 "Leak
   Detection Cost (\$/mi)" for each of Cal Am's districts.
  - a. Please provide invoices, contracts, and other relevant documents that support the \$380 amount for "Leak Detection Cost (\$/mi)."

#### Snapshot #2

CAW System	<b>CAW District</b>	Leak Detection Cost (\$/mi)	Leak Detection Mileage - 2024		
CA-Larkfield Water System	Larkfield	\$380	34.97		
CA-Baldwin Hills Water System	Los Angeles	\$380	69.62		
CA-Duarte Water System	Los Angeles	\$380	100.27		
CA-East Pasadena	Los Angeles	\$380	32.1		
CA-Rio Plaza (El Rio)	Los Angeles	\$380	4.3		
CA-San Marino Water System	Los Angeles	\$380	181.67		
CA-Ambler Park Water System	Monterey	\$380	11.61		
CA-Bishop Water System	Monterey	\$380	16.58		
CA-Chualar Water System	Monterey	\$380	3.00		
CA-Garrapata	Monterey	\$380	2.47		
CA-Hidden Hills Water System	Monterey	\$380	22.13		
CA-Monterey Water System (Monterey Main)	Monterey	\$380	227.05		
CA-Ralph Lane Water System	Monterey	\$380	0.55		
CA-Ryan Ranch Water System	Monterey	\$380	4.8		
CA-Toro Water System	Monterey	\$380	18.07		
CA-Antelope Water System	Sacramento	\$380	95.73		
CA-Arden Water System	Sacramento	\$380	21.80		
CA-Dunnigan	Sacramento	\$380	2.47		
CA-Fruitridge Vista	Sacramento	\$380	52.00		
CA-Geyserville	Sacramento	\$380	6.09		
CA-Grove Water System	Sacramento	\$380	3.03		

#### **CAL-AM'S RESPONSE**

1) The estimate of \$250,000 per district for the three-year GRC period was provided by the consultant E-Source as an estimate for consulting service costs based on their experience having provided similar services to other water agencies for achieving compliance with the newly implemented Water loss performance standards<sup>1</sup>.

The \$250,000 figures are based on an estimated annual consulting cost of \$500,000 per year in total for California American Water for each of the three ratecase cycle years and then divided equally to the six different California American Water service areas. Individual district consulting costs will ultimately vary based on scope and efforts needed to bring each service area into

<sup>&</sup>lt;sup>1</sup> Water Code section 10608.34, subdivision (i), (Senate Bill 555, 2015) and (AB 1668 and SB 606, 2018)

#### California-American Water Company

#### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

compliance. Work currently performed by E-Source and California American Water is underway to establish such compliance gaps and to determine scope and efforts needed for compliance of each system.

2) The \$380 (\$/mi) leak detection cost estimate was provided by E-Source and reflects their current pricing for providing leak detection services.

# Attachment 22: Cal Am Los Angeles County District 2019 Condition Based Assessment (Redacted)



### California American Water Los Angeles County District Comprehensive Planning Study – 2019

### **FINAL JUNE 2019**



Mark Reifer, P.E.
California American Water
CA License No. C 74588

# California American Water Los Angeles County District 2019 Condition Based Assessment

Prepared by: Stantec Consulting Services, Inc.

June 2019

#### **SECTION 1**

#### **EXISTING SYSTEM**

#### 1.1 INTRODUCTION

The Condition Based Assessment (CBA) for California American Water Company (CAW) was undertaken in tandem with the Comprehensive Planning Study (CPS) to (1) identify water mains that need rehabilitation and/or replacement and (2) evaluate the existing operating conditions of the booster pump stations (BPS) and identify possible opportunities for capital improvement projects. This assessment is used to develop a capital improvement plan and identify estimated cost of rehabilitation/replacement for the plan. To meet this goal for the main replacement portion of the CBA analysis, a comprehensive scoring methodology was developed to assign a risk score for each individual pipe, based on both likelihood of failure (LOF) and consequence of failure (COF). In addition to identifying mains for replacement, this assessment also identifies data gaps that CAW may choose to improve upon for future condition analyses. The BPS portion of the CBA analysis used desktop and on-site assessments to identify potential improvement projects related to CAW's Los Angeles County District BPSs.

#### 1.2 SUMMARY OF EXISTING SYSTEM

CAW owns and operates three water systems in the Los Angeles County District. The Los Angeles County District of CAW includes the water systems of Baldwin Hills; Duarte; and San Marino. The locations of these systems are shown on **Figure 1-1** and additional characteristics are presented in **Table 1-1**.

The Baldwin Hills system is located east of Highway 90, to the north of Inglewood. The Baldwin Hills system servers over 6,000 customers in the communities of Ladera Heights, Windsor Hills, and View Park. The pipe network consists of approximately 65 miles of main, ranging in size from 2-inch to 24-inch pipes and is primarily cast iron. The overall service area covers approximately 2,056 acres (3.2 square miles) with elevations ranging from 48 feet to 470 feet. Due to these changes in elevation, the distribution system is divided into seven main gradient zones.

#### SECTION 2

#### MAIN REPLACEMENT METHODOLOGY

#### 2.1 METHODOLOGY OVERVIEW

The CBA methodology is a risk-based approach that uses an estimation of LOF based on available information and its potential COF. This methodology is commonly used in the asset-management industry, and was further customized and refined with CAW to maximize the available information to complete this assessment and to adapt potential constraints. A series of parameters pertaining to both likelihood and failure were defined, discussed, and further refined within the CBA. Data source and key assumptions used in this assessment are summarized in Section 2.2.

The LOF parameters are combined to estimate an individual pipe's qualitative probability of failure based on available information. LOF parameters pertain to the physical characteristics of the pipe, such as age, material, leak/break history, as well the condition of a pipe's surroundings that may contribute to pipe failure (i.e., soil conditions). **Section 2.3** describes the LOF estimation in further detail.

COF parameters are related to pipe location, potential impacts, and damage that could occur if the pipe fails. **Section 2.4** describes this methodology in greater detail. Similar to the LOF, the COF parameters are summed to create a comprehensive COF score.

Subsequently, the total LOF and COF scores are respectively normalized for each system. These normalized scores are then assigned a risk level of 1 to 5, based on their location within a 5x5 matrix. The methodology for normalization and risk level assignment is further detailed in **Section 2.5**. An example of the 5x5 risk matrix is shown in **Table 2-1**, with Risk Level 1 (LOF or COF 1) the lowest priority and Risk Level 5 (LOF or COF 5) the highest (most critical) priority. Pipes with a risk level of 4 or 5 for both LOF and COF are recommended for replacement, as indicated by the dashed lines in **Table 2-1**. Based on conversations with CAW, pipes with an LOF 5/COF 5, LOF 4/COF 5, LOF 5/COF 4 will be recommended for replacement. Pipes with LOF 4/COF 4 will be identified as needing eventual replacement, but it will be of a lower priority.

highways, state highway, or county highway systems. These two types of systems would have the most significant effect on a pipes' LOF due to higher level of stress from road traffic, and therefore were assigned specific scores when present. Other roadway types include local neighborhood roads, rural roads, private roads, and parking lot roads. The LOF as a result of these remaining road types were deemed equal and thus were grouped together as one score. Table 2-11 describes the scoring criteria used by roadway type.

Table 2-11. Scoring Criteria for Major Roadways

ROAD CLASSIFICATION	ROADWAY DESCRIPTION	SCORE
S1100	Primary Road	9
S1200	Secondary Road	7
Other	Local neighborhood road, rural road, private road, service drive, parking lot road, etc.	5

Notes:

A higher score indicates a relatively higher likelihood of failure due to roadway traffic effects. Road types are grouped into ranges because the effects within a given range are not distinct enough to provide a specific score.

#### 2.3.8 Break/Leak History

Frequent breaks or leaks can indicate poor pipe condition and thus a higher LOF. Geocoded records of leaks and breaks were provided by CAW. Pipes were scored based on the number of leaks and breaks within a 30-foot radius of the respective pipe. Breaks and leaks were scored individually and then summed together, with a maximum possible score of 10. **Table 2-12** summarizes the scores assigned for the numbers of leaks and breaks along pipes.

Table 2-12. Scoring Criteria for Leaks and Breaks

BREAKS/LEAKS	Score
2 or more breaks	10
1 break	5
0 breaks	0
6 or more leaks	10
3-5 leaks	5
2 leaks	4
1 leak	3
0 leaks	0

# Attachment 23: 2022-10-07 A2207001 CAW Response Cal Adv TGE 11

# BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) for Authorization to Increase its Revenues for Water Service by \$55,771,300 or 18.71% in the year 2024, by \$19,565,300 or 5.50% in the year 2025, and by \$19,892,400 or 5.30% in the year 2026.

A.22-07-001 (Filed July 1, 2022)

# CALIFORNIA-AMERICAN WATER COMPANY'S RESPONSE TO PUBLIC ADVOCATES OFFICE'S DATA REQUEST TGE 11

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Attorneys for California-American Water Company

Dated: October 7, 2022

#### <u>APPLICATION NO. A.22-07-001</u> DATA REQUEST RESPONSE

Response Provided By: Nina Miller

Title: Manager Engineering – Asset Planning

Address: California American Water

511 Forest Lodge Road, Suite 100

Pacific Grove CA 93950

Cal Adv Request: A2207001 CAL ADV DATA REQUEST # TGE 11

Company Number: Cal ADV TGE 11 Q002

Date Received: September 23, 2022

Date Response Due: October 7, 2022

Subject Area: Miscellaneous Expenses Planning Studies

#### **DATA REQUEST:**

2. Please refer to California Public Utilities Commission document titled, "California-American Water Company (U210W) Notice of Corrected Pages to Attachment E-1 and Attachment G-1 to the Settlement Agreement," for Application 19-07-004, for the following questions. The referenced version of this document can be found at <a href="https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M425/K604/425604744.pdf">https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M425/K604/425604744.pdf</a>

- a. Please refer to the table titled "Planning Studies and System Maps Costs," found on pages 55, 56, and 57 under section titled "Attachment B-6 For Settlement Planning Studies and Mapping." Please note that these page numbers refer to the pages utilized by the PDF viewer, as the attachment itself has no labeled page numbers. Please answer the following.
  - i. The "Planning Studies and System Maps Costs" table shows an authorized expense of \$222,250 in 2021 for "SCADA Master Plan" in the Monterey District. Please explain how much of the authorized \$222,250 was spent for 2021 and provide the relevant invoices, receipts, and other documents supporting this recorded spent amount. Additionally, please identify the specific cells from Excel workbook "ALL\_CH04\_O&M\_RO," worksheet "Sum Costs After Go Alloc WS9D," in which the recorded spent amount is located. If the recorded spent amount is not present in workbook "ALL\_CH04\_O&M\_RO," worksheet "Sum Costs After Go Alloc WS9D," please identify the specific Excel workbooks, worksheets, and cells therein, in which this amount is located in the current GRC filling, workpapers, and other documents.
  - ii. The "Planning Studies and System Maps Costs" table shows an authorized expense of \$500,000 in 2021 for "Tank Seismic Assessments" and an authorized expense of \$150,000 in 2021 for "Well Master Plan" in

#### <u>APPLICATION NO. A.22-07-001</u> DATA REQUEST RESPONSE

the Los Angeles District. Please explain how much of the authorized \$500,000 and \$150,000 amounts were spent for 2021 and provide the relevant invoices, receipts, and other documents supporting these recorded spent amounts. Additionally, please identify the specific cells from Excel workbook "ALL\_CH04\_O&M\_RO," worksheet "Sum Costs After Go Alloc WS9D," in which the recorded spent amounts are located. If the recorded spent amounts are not present in workbook "ALL\_CH04\_O&M\_RO," worksheet "Sum Costs After Go Alloc WS9D," please identify the specific Excel workbooks, worksheets, and cells therein, in which these amounts are located in the current GRC filing, workpapers, and other documents.

- iii. The "Planning Studies and System Maps Costs" table shows an expense of \$700,000 in 2021 for "Water Storage Tank Seismic Study" and an expense of \$550,000 in 2021 for "Integrated Water Supply (IWS) Master Plan" in Ventura District. Please explain how much of the authorized \$700,000 and \$550,000 amounts were spent for 2021 and provide the relevant invoices, receipts, and other documents supporting these recorded spent amounts. Additionally, please identify the specific cells from Excel workbook "ALL\_CH04\_O&M\_RO," worksheet "Sum Costs After Go Alloc WS9D," in which the recorded spent amounts are located. If the recorded spent amounts are not present in workbook "ALL\_CH04\_O&M\_RO," worksheet "Sum Costs After Go Alloc WS9D," please identify the specific Excel workbooks, worksheets, and cells therein, in which these amounts are located in the current GRC filing, workpapers, and other documents.
- iv. The "Planning Studies and System Maps Costs" table shows an expense of \$150,000 in 2021 for "Portable Generator Power Shutoff Study" in CA-Corporate District. Please explain how much of the \$150,000 was spent for 2021 and provide the relevant invoices, receipts, and documents supporting this recorded spent amount. Additionally, please identify the specific cells from Excel workbook "ALL\_CH04\_O&M\_RO," worksheet "Sum Costs After Go Alloc WS9D," in which the recorded spent amount is located. If the recorded spent amount is not present in workbook "ALL\_CH04\_O&M\_RO," worksheet "Sum Costs After Go Alloc WS9D," please identify the specific Excel workbooks, worksheets, and cells therein, in which this amount is located in the current GRC filing, workpapers, and other documents.

#### <u>APPLICATION NO. A.22-07-001</u> DATA REQUEST RESPONSE

## **CAL-AM'S RESPONSE**

#### Q2.a.i.

In 2021 \$89,500 of the approved \$222,250 was spent on the "SCADA Master Plan" in the Monterey District. The 2021 spend is reflected in workbook

"ALL\_CH04\_O&M\_RO," worksheet "Y\_OM Data Rec WS1" cell N-785 along with other 2021 Contract Services Engineering spend.

See CAW Response Cal Adv TGE-11 Q002 Attachment 1 for invoices.

#### Q2.a.ii.

In 2021 \$198,567.39 of the approved \$500,000 was invoiced on the "Tank Seismic Assessments" in the LA District. Some 2021 invoices were not processed until 2022, therefore the spend was not accounted for in 2021. In addition, this spend is deferred and thus not reflected in workbook "ALL\_CH04\_O&M\_RO."

In 2021 \$13,431.25 of the approved \$150,000 was invoiced on the "Well Master Plan" in the LA District. Some 2021 invoices were not processed until 2022, therefore the spend was not accounted for in 2021. The 2021 spend is reflected in workbook

"ALL\_CH04\_O&M\_RO," worksheet "Y\_OM Data Rec WS1" cell N-2555 along with other 2021 Contract Services Engineering spend.

CAW Response Cal Adv TGE-11 Q002 Attachments 2 and 3 for invoices.

#### Q2.a.iii.

In 2021 \$172,975.28 was spent on the "Water Storage Tank Seismic Study" in the Ventura District. Some 2021 invoices were not processed until 2022, therefore the spend was not accounted for in 2021. In addition, this spend is deferred and thus not reflected in workbook "ALL\_CH04\_O&M\_RO."

In 2021 \$230,000 of the approved \$550,000 was spent on the "Integrated Water Supply (IWS) Master Plan" in the Ventura District. Some 2021 invoices were not processed until 2022, therefore the spend was not accounted for in 2021. The 2021 spend is reflected in workbook "ALL\_CH04\_O&M\_RO," worksheet "Y\_OM Data Rec WS1" cell N-2909 along with other 2021 Contract Services Engineering spend.

See CAW Response Cal Adv TGE-11 Q002 Attachments 4 and 5 for invoices.

#### Q2.a.iv.

In 2021 \$207,370 of the approved \$150,000 was spent on the "Portable Generator Power Shutoff Study". This was a statewide study and as such the 2021 spend is reflected in workbook "ALL\_CH04\_O&M\_RO," worksheet "Y\_OM Data Rec WS1" cells N-431, N-785, N-2555, N-2909, N-4679, and N-5033 along with other 2021 Contract Services Engineering spend.

See CAW Response Cal Adv TGE-11 Q002 Attachment 6 for invoices.

# Attachment 24: 2022-10-07 A2207001 CAW Response Cal Adv TGE-11 Q002 Attachment 4 (Ventura Seismic Tank Assessments Spend)

# **Invoice**

2110119 Invoice Number Invoice Date Nov 29, 2021 Supply Date Oct 31, 2021 Currency USD (US Dollar) Purchase Order 3000534030 Payment Terms 45 days net

Supplier RICHARD BRADY & ASSOCIATES

2655 CAMINO DEL RIO NORTH SUITE 100 SAN DIEGO, CA 92108 US (United States)

858-496-0500 858-496-0505

California American Water Company

1 Water St

8565199733

Camden, NJ 08102-1658 US (United States) 8667778426

Ship To Sacramento Prod 4701 Beloit Dr Sacramento, CA 95838-2434 US (United States)

#	PO Item	Description	Unit	Qty	Unit Price	Line Total
1	10	Ventura Tank Seismic Assessments	AU	1	\$42,493.84	\$42,493.84

\$42,493.84 Subtotal Total Tax Amount Invoice Amount \$42,493.84



2655 Camino del Rio North, Suite 100 San Diego, CA 92108 tel: 858-496-0500 fax: 858-496-0505 www.richardbrady.com

California-American Water Co AP Dept 1015

Invoice number 2110119 Invoice date 11/29/2021

Professional Services Through 10/31/2021
Project CAWCO2.002 TANK SEISMIC ASSESSMENTS
VENTURA COUNTY DISTRICT

1 Water Street, Camden, NJ 08102-1658 Vendor #: 123275 PO #: 3000534030

Invoice Summary							
		Contract	Percent		Prior	Total	Current
Description		Amount	Complete	Remaining	Billed	Billed	Billed
CAWCO2.002 VENTURA	\$	376,598.00	11.28% \$	334,104.16	\$ -	\$ 42,493.84	\$ 42,493.84
	Total \$	376,598.00	11.28% \$	334,104.16	\$ -	\$ 42,493.84	\$ 42,493.84

Professional Fees

	Contract	Percent		Prior	Total	C	urrent
Ventura (PO# 3000534030)	Amount	Complete	Remaining	Billed	Billed	Е	Billed
Task 1 - Project Management	\$ 45,195.00	94.02% \$	2,701.16	\$ -	\$ 42,493.84	\$	42,493.84
Task 2 - Resource Document and Data							
Review	\$ 61,699.00	0.00% \$	61,699.00	\$ -	\$ -		
Task 3 - Hazardous Materials Testing (Not							
Applicable)	\$ -	\$	-	\$ -	\$ -		
Task 4 - Field Investigation for Condition							
Assessment	\$ 38,666.00	0.00% \$	38,666.00	\$ -	\$ -		
Task 5 - Condition Assessment Report and							
Recommendations for Reservoirs	\$ 52,516.00	0.00% \$	52,516.00	\$ -	\$ -		
Task 6 - Seismic and Structural							
Assessment for Reservoirs	\$ 106,587.00	0.00% \$	106,587.00	\$ -	\$ -		
Task 7 - Hydraulic Review	\$ 71,935.00	0.00% \$	71,935.00	\$ -	\$ -		
	\$ 376,598.00	11.28% \$	334,104.16	\$ -	\$ 42,493.84	\$	42,493.84

Invoice Total \$ 42,493.84

Approved by:

Fichard Brady, PE, BCEE, CEO
Fed. I.D. No. 33-0854675
PLEASE REMIT TO: Richard Brady & Associates, Inc. 2655 Camino Del Rio North # 100, San Diego, CA 92108

# **Invoice**

2111119 Invoice Number Dec 22, 2021 Invoice Date Supply Date Oct 31, 2021 Currency USD (US Dollar) Purchase Order 3000534030 Payment Terms 45 days net

Supplier RICHARD BRADY & ASSOCIATES

2655 CAMINO DEL RIO NORTH SUITE 100 SAN DIEGO, CA 92108 US (United States) 858-496-0500

858-496-0505

Customer

California American Water Company

1 Water St

Camden, NJ 08102-1658 US (United States) 8667778426 8565199733

Ship To Sacramento Prod 4701 Beloit Dr Sacramento, CA 95838-2434 US (United States)

#	PO Item	Description	Unit	Qty	Unit Price	Line Total
1	10	Ventura Tank Seismic Assessments	AU	1	\$130,481.44	\$130,481.44

Subtotal \$130,481.44 \$0.00 Total Tax Amount Invoice Amount \$130,481.44





2655 Camino del Rio North, Suite 100 San Diego, CA 92108 tel: 858-496-0500 fax: 858-496-0505 www.richardbrady.com

Invoice number 2111119

California-American Water Co AP Dept 1015 1 Water Street, Camden, NJ 08102-1658

Invoice date 12/22/2021 Professional Services Through 11/30/2021
Project CAWCO2.002 TANK SEISMIC ASSESSMENTS
VENTURA COUNTY DISTRICT

Vendor #: 123275 PO #: 3000534030

Invoice Summary				_			
		Contract	Percent		Prior	Total	Current
Description		Amount	Complete	Remaining	Billed	Billed	Billed
CAWCO2.002 VENTURA	\$	376,598.00	45.93% \$	203,622.72	\$ 42,493.84	\$ 172,975.28	\$ 130,481.44
	Total \$	376,598.00	45.93% \$	203,622.72	\$ 42,493.84	\$ 172,975.28	\$ 130,481.44

Professional Fees

	Contract	Percent		Prior	Total	Current
Ventura (PO# 3000534030)	Amount	Complete	Remaining	Billed	Billed	Billed
Task 1 - Project Management	\$ 45,195.00	50.00%	\$ 65,091.34	\$ 42,493.84	\$ 22,597.50	\$ (19,896.34)
Task 2 - Resource Document and Data						
Review	\$ 61,699.00	100.00%	\$ -	\$ -	\$ 61,699.00	\$ 61,699.00
Task 3 - Hazardous Materials Testing (Not						
Applicable)	\$ -		\$ -	\$ -	\$ -	\$ -
Task 4 - Field Investigation for Condition						
Assessment	\$ 38,666.00	100.00%	\$ -	\$ -	\$ 38,666.00	\$ 38,666.00
Task 5 - Condition Assessment Report and						
Recommendations for Reservoirs	\$ 52,516.00	0.00%	\$ 52,516.00	\$ -	\$ -	
Task 6 - Seismic and Structural						
Assessment for Reservoirs	\$ 106,587.00	46.92%	\$ 56,574.22	\$ -	\$ 50,012.78	\$ 50,012.78
Task 7 - Hydraulic Review	\$ 71,935.00	0.00%	\$ 71,935.00	\$ -	\$ -	\$ -
	\$ 376,598.00	45.93%	\$ 246,116.56	\$ 42,493.84	\$ 172,975.28	\$ 130,481.44

Invoice Total \$ 130,481.44

Approved by:
Richard Brady, PE, BCEE, CEO
Fed. I.D. No. 33-0854675
PLEASE REMIT TO: Richard Brady & Associates, Inc. 2655 Camino Del Rio North # 100, San Diego, CA 92108

# Attachment 25: 2022-10-07 A2207001 CAW Response Cal Adv TGE-11 Q002 Attachment 5 (IWS Master Plan Ventura Spend)

# **Invoice**

 Invoice Number
 504400789

 Invoice Date
 Dec 30, 2021

 Supply Date
 Dec 30, 2021

 Currency
 USD (US Dollar)

 Purchase Order
 3000534056

 Payment Terms
 30 days net

Supplier
Mott MacDonald
Pittsburgh, PA
US (United States)
PO Box 358061
Pittsburgh 15251-5061
973-379-3400
973-912-2491

Customer
California American Water Company
1 Water St
Camden, NJ 08102-1658
US (United States)
8667778426
8565199733

Ship To Ventura Dist 2439 W Hillcrest Dr Newbury Park, CA 91320-2202 US (United States)

#	PO Item	Description	Unit	Qty	Unit Price	Line Total
1	10	Ventura Integrated Water Supply Study	AU	1	\$10,000.00	\$10,000.00

 Subtotal
 \$10,000.00

 Total Tax Amount
 \$0.00

 Invoice Amount
 \$10,000.00





California American Water P.O. Box 5623 Cherry Hill NJ 08034 United States 12647 Alcosta Boulevard Suite 275 San Ramon CA 94583 United States

T+1925-469-8010

		Invoice	504400789							
Our Contact Project No. Client Contact	Stephanie Douglass 504100664	Invoice Date Due Date Payment Terms Client No.	12/30/2021 1/29/2022 30 Days Net 0001249							
Purchase Order	3000534056	Currency	USD							
Sale of Profession	Sale of Professional Services									
Professional Engine CAW - Ventura Inte 36102	entura Integrated Water Supply Plan - T&M eering Services rendered in connection with grated Water Supply Study, Task Order No 2021, \$230,000 of the approve budget has		10,000.00							
		Invoice Total	10,000.00							

 Bank Name
 HSBC USA

 Bank Id.
 021001088

 Account No.
 006064361

 SWIFT/BIC
 MRMDUS33

Remittance Advice Address

Check Payment To: Mott MacDonald Dept LA 22336 Pasadena CA 91185-2336

Invoice

504400789

Page 2

Project Name CAW Ventura Integrated Water Supply Plan - T&M

 Amount
 Total Amount

 Invoice On Account
 10,000.00

 Amount Subtotal
 10,000.00

Invoice Total 10,000.00

Remittance Advice Address

Check Payment To: Mott MacDonald Dept LA 22336 Pasadena CA 91185-2336

# Invoice

 Invoice Number
 504400785

 Invoice Date
 Dec 28, 2021

 Supply Date
 Dec 28, 2021

 Currency
 USD (US Dollar)

 Purchase Order
 3000534056

 Payment Terms
 30 days net

Supplier
Mott MacDonald
Pittsburgh, PA
US (United States)
PO Box 358061
Pittsburgh 15251-5061
973-379-3400
973-912-2491

Customer
California American Water Company
1 Water St
Camden, NJ 08102-1658
US (United States)
8667778426
8565199733

Ship To Ventura Dist 2439 W Hillorest Dr Newbury Park, CA 91320-2202 US (United States)

#	PO Item	Description	Unit	Qty	Unit Price	Line Total
1	10	Ventura Integrated Water Supply Study	AU	1	\$172,000.00	\$172,000.00

 Subtotal
 \$172,000.00

 Total Tax Amount
 \$0.00

 Invoice Amount
 \$172,000.00





California American Water P.O. Box 5623 Cherry Hill NJ 08034 United States 12647 Alcosta Boulevard Suite 275 San Ramon CA 94583 United States

T+1925-469-8010

		Invoice	504400785								
Our Contact Project No. Client Contact	Stephanie Douglass 504100664	Invoice Date Due Date Payment Terms Client No.	12/28/2021 1/27/2022 30 Days Net 0001249								
Purchase Order	3000534056	Currency	USD								
Sale of Professional Services											
504100664 CAW V Professional Engine CAW - Ventura Inte 36102 As of December 31 has been spent.	172,000.00										
		Invoice Total	172,000.00								

Preferred Method of Payment:
Bank Name HSBC USA
Bank Id. 021001088
Account No. 006064361
SWIFT/BIC MRMDUS33

Remittance Advice Address

Check Payment To: Mott MacDonald Dept LA 22336 Pasadena CA 91185-2336



## California American Water Ventura District Integrated Water Supply Plan

## Progress Statement as of December 27, 2021

**Consultant: Mott MacDonald** 

#### Progress Summary/Overview

For the period from December 1, 2021 through December 31, 2021, activities included:

#### <u>Task 0 – Project Management</u>

- Internal design team coordination meetings
- Project management services during design included document control, contract administration, and project coordination with District staff and Project Team.

#### Task 1 – Service Area Review

• Complete review CAW Ventura District Service Area.

#### Task 2 - Ventura County Water Supply Resources Review

• Complete review of water supply in Ventura County.

#### <u>Task 3 – Source Evaluation</u>

• Summarize publicly available data on groundwater sources.

### Task 4 – Potential Users

• Identify potential users in service area.

#### Task 5 – Infrastructure Needs

• Develop infrastructure improvements

#### Task 6 - Preliminary Recommendations Report

• Prepare Phase 1 draft preliminary report for internal QA/QC.

https://mottmac.sharepoint.com/teams/pj-f7388/do/Project Management/Invoicing/December 2021 Progress Report.docm



#### **Next Month Activities:**

# Task 0 - Project Management

 Project management services during design included document control, contract administration, and project coordination with District staff and Project Team.

#### Task 1 – Service Area Review

• Finalize draft section on CAW Ventura District Service Area in the report.

#### Task 2 - Ventura County Water Supply Resources Review

• Finalize draft section on water supply in Ventura County in the report.

#### <u>Task 3 – Source Evaluation</u>

 Complete preliminary source evaluation based on publicly available data on groundwater sources.

#### <u>Task 4 – Potential Users</u>

• Complete preliminary review of potential recycled water users in service area.

#### $\underline{Task\ 5-Infrastructure\ Needs}$

• Complete preliminary draft of infrastructure improvements

#### Task 6 - Preliminary Recommendations Report

• Submit Phase 1 draft preliminary report.

#### **Budget Status**

The approved budget is \$320,000. As of December 31, 2021, \$220,000 or 69% of the approved budget has been spent.

 $https://mottmac.sharepoint.com/teams/pj-f7388/do/Project\ Management/Invoicing/December\ 2021\ Progress\ Report.docm$ 

# **Invoice**

 Invoice Number
 504400747

 Invoice Date
 Dec 14, 2021

 Supply Date
 Dec 14, 2021

 Currency
 USD (US Dollar)

 Purchase Order
 3000534056

 Payment Terms
 30 days net

Supplier
Mott MacDonald
Pittsburgh, PA
US (United States)
PO Box 358061
Pittsburgh 15251-5061
973-379-3400
973-912-2491

Customer
Culfornia American Water Company
1 Water St
Camden, NJ 08102-1658
US (United States)
8667778426
8565199733

Ship To Ventura Dist 2439 W Hillcrest Dr Newbury Park, CA 91320-2202 US (United States)

#	PO Item	Description	Unit	Qty	Unit Price	Line Total
1	10	Ventura Integrated Water Supply Study	AU	1	\$32,000.00	\$32,000.00
0						
Comment	-4-114				Subtotal	\$32,000.00
15% of the to	otal budget			Total T	ax Amount	\$0.00
				Invoi	ce Amount	\$32,000.00





California American Water P.O. Box 5623 Cherry Hill NJ 08034 United States 12647 Alcosta Boulevard Suite 275 San Ramon CA 94583 United States

T +1 925-469-8010

		Invoice	504400747
Our Contact Project No. Client Contact	Stephanie Douglass 504100664	Invoice Date Due Date Payment Terms Client No.	12/13/2021 1/12/2022 30 Days Net 0001249
Purchase Order	3000534056	Currency	USD
Sale of Profession	nal Services		
Professional Engine	entura Integrated Water Supply Plan - T&M eering Services rendered in connection with grated Water Supply Study, Task Order No.		32,000.00
		Invoice Total	32,000.00

Preferred Method of Payment:
Bank Name HSBC USA
Bank Id. 021001088
Account No. 006064361
SWIFT/BIC MRMDUS33

Remittance Advice Address

Check Payment To: Mott MacDonald Dept LA 22336 Pasadena CA 91185-2336



## California American Water Ventura District Integrated Water Supply Plan

# Progress Statement as of November 30, 2021

**Consultant: Mott MacDonald** 

#### **Progress Summary/Overview**

For the period from October 1, 2021 through November 30, 2021, activities included:

#### <u>Task 0 – Project Management</u>

- Internal design team Kickoff Meeting on October 25, 2021.
- Project Kickoff Meeting Held on November 1, 2021.
- Developed Project Execution Plan (submitted on November 16, 2021).
- Project management services during design included document control, contract administration, and project coordination with District staff and Project Team.

#### Task 1 – Service Area Review

Reviewed CAW Ventura District Service Area.

#### Task 2 – Ventura County Water Supply Resources Review

• Conducted review of water supply in Ventura County.

#### <u>Task 3 – Source Evaluation</u>

- Reviewed background information provided the District and GAMA data on surrounding water quality/production.
- Evaluated City of Thousand Oaks groundwater studies from other consultants.

### <u>Task 4 – Potential Users</u>

- Reviewed previous studies completed by other consultants.
- Outreach to agencies for master plan shape files.

#### <u>Task 5 – Infrastructure Needs</u>

• Evaluated proposed recycled water alignment in previous studies.

#### <u>Task 6 – Preliminary Recommendations Report</u>

- Created draft preliminary report outline for Phase.
- Developing Phase 1 draft preliminary report.

https://mottmac.sharepoint.com/teams/pj-e9481/exec/Invoicing/504100323-001/01\_April 2021/Design Set 1 Apr 30, 2021 Flow Meters Progress Statement.docm



#### **Next Month Activities:**

#### Task 0 - Project Management

- Internal design team Kickoff Meeting on October 25, 2021.
- Project Kickoff Meeting Held on November 1, 2021.
- Developed Project Execution Plan (submitted on November 16, 2021).
- Project management services during design included document control, contract administration, and project coordination with District staff and Project Team.

#### Task 1 – Service Area Review

• Complete review CAW Ventura District Service Area.

#### <u>Task 2 – Ventura County Water Supply Resources Review</u>

• Complete review of water supply in Ventura County.

#### <u>Task 3 – Source Evaluation</u>

• Summarize publicly available data on groundwater sources.

#### Task 4 – Potential Users

• Identify potential users in service area.

#### <u>Task 5 – Infrastructure Needs</u>

• Develop infrastructure improvements

# <u>Task 6 - Preliminary Recommendations Report</u>

• Prepare Phase 1 draft preliminary report for internal QA/QC.

#### **Budget Status**

The approved budget is \$320,000. As of November 30, 2021, \$48,000 or 15% of the approved budget has been spent.

https://mottmac.sharepoint.com/teams/pj-e9481/exec/Involcing/504100323-001/01\_April 2021/Design Set 1 Apr 30, 2021 Flow Meters Progress Statement.docm

# **Invoice**

 Invoice Number
 504400685

 Invoice Date
 Nov 17, 2021

 Supply Date
 Nov 17, 2021

 Currency
 USD (US Dollar)

 Purchase Order
 3000534056

 Payment Terms
 30 days net

Supplier
Mott MacDonald
Pittsburgh, PA
US (United States)
PO Box 358061
Pittsburgh 15251-5061
973-379-3400
973-912-2491

Customer
California American Water Company
1 Water St
Camden, NJ 08102-1658
US (United States)
8667778426
8565199733

Ship To Ventura Dist 2439 W Hillcrest Dr Newbury Park, CA 91320-2202 US (United States)

#	PO Item	Description	Unit	Qty	Unit Price	Line Total
1	10-1	Ventura Integrated Water Supply Study - Ventura Integrated Water Supply Study	AU	1	\$16,000.00	\$16,000.00
					Subtotal	\$16,000.00
				Total	Tax Amount	\$0.00
				Invo	oice Amount	\$16,000.00





California American Water P.O. Box 5623 Cherry Hill NJ 08034 United States 12647 Alcosta Boulevard Suite 275 San Ramon CA 94583 United States

T +1 925-469-8010

		Invoice	504400685
Our Contact Project No. Client Contact	Stephanie Douglass 504100664	Invoice Date Due Date Payment Terms Client No.	11/17/2021 12/17/2021 30 Days Net 0001249
Purchase Order	3000534056	Currency	USD
Sale of Profession	nal Services		
Professional Engine	entura Integrated Water Supply Plan - T&M eering Services rendered in connection with grated Water Supply Study, Task Order No.		16,000.00
		Invoice Total	16,000.00

Preferred Method of Payment:
Bank Name HSBC USA
Bank Id. 021001088
Account No. 006064361
SWIFT/BIC MRMDUS33

Remittance Advice Address

Check Payment To: Mott MacDonald Dept LA 22336 Pasadena CA 91185-2336

# Attachment 26: 2022-12-21 A2207001 CAW Response Cal Adv TGE 16

# BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) for Authorization to Increase its Revenues for Water Service by \$55,771,300 or 18.71% in the year 2024, by \$19,565,300 or 5.50% in the year 2025, and by \$19,892,400 or 5.30% in the year 2026.

A.22-07-001 (Filed July 1, 2022)

# CALIFORNIA-AMERICAN WATER COMPANY'S RESPONSE TO PUBLIC ADVOCATES OFFICE'S DATA REQUEST TGE 16

Sarah E. Leeper Nicholas A. Subias Cathy Hongola-Baptista California-American Water Company 555 Montgomery Street, Suite 816 San Francisco, CA 94111 (415) 863-2960 sarah.leeper@amwater.com

Lori Anne Dolqueist Willis Hon Nossaman LLP 50 California Street 34<sup>th</sup> Floor San Francisco, CA 94111 (415) 398-3600 Idolqueist@nossamna.com

Attorneys for California-American Water Company

Dated: December 21, 2022

#### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Nina Miller

Title: Manager Engineering – Asset Planning

Address: California American Water

511 Forest Lodge Road, Suite 100

Pacific Grove CA 93950

Response Provided By: Joey Chen

Title: Senior Rates & Regulatory Analyst

Address: California American Water

520 Capital Mall, Suite 630 Sacramento, CA 95814

Cal Adv Request: A2207001 CAL ADV DATA REQUEST # TGE 16

Company Number: Cal ADV TGE 16 Q001
Date Received: November 30, 2022
Date Response Due: December 14, 2022
Subject Area: Maintenance of Maps

#### **DATA REQUEST:**

Please refer to California Public Utilities Commission document titled, "California-American Water Company (U210W) Notice of Corrected Pages to Attachment E-1 and Attachment G-1 to the Settlement Agreement," for Application 19-07-004, for the following questions. The referenced version of this document can be found at <a href="https://docs.cpuc.ca.gov/Published/Docs/Published/G000/M425/K604/425604744.pdf">https://docs.cpuc.ca.gov/Published/Docs/Published/G000/M425/K604/425604744.pdf</a>. The following questions specifically pertain to "Planning Studies and System Maps Costs," found on pages 55, 56, and 57 under section titled "Attachment B-6 For Settlement Planning Studies and Mapping." Please note that these page numbers refer to the pages utilized by the PDF viewer, as the attachment itself has no labeled pages.

- 1. The "Planning Studies and System Maps Costs" table shows authorized expenses for "Maintenance of Systems Maps" for various districts for calendar year 2021, which include \$46,503 for San Diego; \$129,920 for Sacramento; \$5,118 for Larkfield; \$61,368 for Los Angeles; \$43,574 for Ventura; and \$92,417 for Monterey. Please answer the following questions and requests. For the Excel format requests for each question, please refer to Snapshot #1 below, taken from Excel document "CAW Response Cal Adv TGE 12 Q001.e-p Attachment 1" as an example reference.
  - a. San Diego District
    - a. Please explain how much of the authorized expense of \$46,503 for the San Diego District was spent for 2021.
    - b. Please also provide in Excel format a list of individual transactions, their posting dates, and the individual amounts comprising the total amount spent

# APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

for Maintenance of Systems Maps expenses for the San Diego District in 2021, in the same manner as the example in Snapshot #1 shown below.

c. Please also provide relevant invoices, contracts, and other documents supporting these spent amounts, and identify the specific pages supporting these amounts therein.

#### b. Sacramento District

- a. Please explain how much of the authorized expense of \$129,920 for the Sacramento District was spent for 2021.
- b. Please also provide in Excel format a list of individual transactions, their posting dates, and the individual amounts comprising the total amount spent for Maintenance of Systems Maps expenses for the Sacramento District in 2021, in the same manner as the example in Snapshot #1 shown below.
- c. Please also provide relevant invoices, contracts, and other documents supporting these spent amounts, as well as identify the specific pages supporting these amounts therein.

#### c. Larkfield District

- a. Please explain how much of the authorized expense of \$5,118 for the Larkfield District was spent for 2021.
- b. Please also provide in Excel format a list of individual transactions, their posting dates, and the individual amounts comprising the total amount spent for Maintenance of Systems Maps expenses for the Larkfield District in 2021, in the same manner as the example in Snapshot #1 shown below.
- c. Please also provide relevant invoices, contracts, and other documents supporting these spent amounts, and as identify the specific pages supporting these amounts therein.

#### d. Los Angeles District

- a. Please explain how much of the authorized expense of \$61,368 for the Los Angeles District was spent for 2021.
- b. Please also provide in an Excel format a list of individual transactions, their posting dates, and the individual amounts comprising the total amount spent for Maintenance of Systems Maps expenses for the Los Angeles District in 2021, in the same manner as the example in Snapshot #1 shown below.
- c. Please also provide relevant invoices, contracts, and other documents supporting these spent amounts, and identify the specific pages supporting these amounts therein.

## e. Ventura District

- a. Please explain how much of the authorized expense of \$43,574 for the Ventura District was spent for 2021.
- b. Please also provide in Excel format a list of individual transactions, their posting dates, and their individual amounts comprising the total amount spent

# APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

- for Maintenance of Systems Maps expenses for Ventura District in 2021, in the same manner as the example in Snapshot #1 shown below.
- c. Please also provide relevant invoices, contracts, and other documents supporting these spent amounts, and identify the specific pages supporting these amounts therein.
- f. Monterey District
  - a. Please explain how much of the authorized expense of \$92,417 for the Monterey District was spent for 2021.
  - b. Please also provide in Excel format a list of individual transactions, their posting dates, and the individual amounts comprising the total amount spent for Maintenance of Systems Maps expenses for the Monterey District in 2021, in the same manner as the example in Snapshot #1 shown below.
  - c. Please also provide relevant invoices, contracts, and other documents supporting these spent amounts, and identify the specific pages supporting these amounts therein.

## **CAL-AM'S RESPONSE**

- 1.a.-f. (a) Performance and completion of GIS collection tasks require multiple employees and/or contractors to be on site within close proximity of each other. As a result, to comply with COVID-19 restrictions and company safety guidance, minimal GIS Mapping work was completed in 2021. Please refer to California American Water's attachment CAW Response Cal ADV TGE 16 Q001 a-f Attachment 1 for 2021 spend.
- 1.a.-f. (b) Please refer to California American Water's attachment CAW Response Cal ADV TGE 16 Q001 a-f Attachment 1
- 1.a.-f (c) Please refer to California American Water's attachment CAW Response Cal ADV TGE 16 Q001 a-f Attachment 2.

#### APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

Response Provided By: Nina Miller

Title: Manager Engineering – Asset Planning

Address: California American Water

511 Forest Lodge Road, Suite 100

Pacific Grove CA 93950

Response Provided By: Joey Chen

Title: Senior Rates & Regulatory Analyst

Address: California American Water

520 Capital Mall, Suite 630 Sacramento, CA 95814

Cal Adv Request: A2207001 CAL ADV DATA REQUEST # TGE 16

Company Number: Cal ADV TGE 16 Q002

Date Received: November 30, 2022

Date Response Due: December 14, 2022

Subject Area: Maintenance of Maps

#### DATA REQUEST:

Please refer to California Public Utilities Commission document titled, "California-American Water Company (U210W) Notice of Corrected Pages to Attachment E-1 and Attachment G-1 to the Settlement Agreement," for Application 19-07-004, for the following questions. The referenced version of this document can be found at <a href="https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M425/K604/425604744.pdf">https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M425/K604/425604744.pdf</a>. The following questions specifically pertain to "Planning Studies and System Maps Costs," found on pages 55, 56, and 57 under section titled "Attachment B-6 For Settlement Planning Studies and Mapping." Please note that these page numbers refer to the pages utilized by the PDF viewer, as the attachment itself has no labeled pages.

- 2. Maintenance of Systems Maps Expenses
  - a. Please also provide the recorded amounts spent for Maintenance of Systems Maps expenses for recorded years 2017 through 2020, for each of the following districts: San Diego, Sacramento, Larkfield, Los Angeles, Ventura, and Monterey.
  - b. Please also provide in an Excel format a list of individual transactions, their posting dates, and their individual amounts comprising the total amount spent for Maintenance of Systems Maps expenses for each recorded year from 2017 through 2020 for each of the following districts: San Diego, Sacramento, Larkfield, Los Angeles, Ventura, and Monterey.
  - c. Please provide these transactions in the same manner as the example shown in Snapshot #1 below.

# APPLICATION NO. A.22-07-001 DATA REQUEST RESPONSE

d A	В	C	D E	F	G	н	1	J	K	L	M	N	0	P	Q	R	5	T	U	V	W	X	Y
Compar	y Docum	nent Dr/Cr in	di Document Cost elen	Val.in rep.	Posting Da	Created or	GL Accoun Pe	riod	Fiscal Yea	a Documer	Name	Ref Docur	Total quar	Posted un	Material	Material Description	Purchasing Document	Item	Purchase (	District N	District No	ame	
1015	SV	D	10061234C Contr Svc	12,766	3/30/2018	3/30/2018	52000000 3		2018	8 1015 POA	00000112406	7 100213511	0					0		1530	San Diego	County Dis	strict
1015	SV	D	10061234C Contr Svc	451	3/30/2018	3/30/2018	52000000 3		2018	8 1015 POA	00000113230	9 100213511	0					0		1530	San Diego	County Dis	strict
1015	SG	C	100612421Contr Svc	(451)	4/1/2018	3/31/2018	52000000 4		2018	8 1015 POA	00000113230	9 100213516	0					0		1530	San Diego	County Dis	strict
5 1015	SG	C	100612421 Contr Svc	(12,766)	4/1/2018	3/31/2018	52000000 4		2018	8 1015 POA	00000112406	7 100213516	0					0		1530	San Diego	County Dis	strict
6 1015	WE	D	10061666C Contr Svc	12,766	4/9/2018	4/9/2018	52000000 4		2018	В	Review of C	ap 500085706	1	AU			3000211247	50001	Service Ite	1530	San Diego	County Dis	strict
7 1015	WE	D	100616572 Contr Svc	451	4/9/2018	4/9/2018	52000000 4		2018	Michael I	B Recycled Wa	te 500085665	1	AU			3000198399	1	Study	1530	San Diego	County Dis	strict
1015	WE	D	100617992 Contr Svc	3,830	4/13/2018	4/13/2018	52000000 4		2018	В	Demand Pro	je 500085970	1	AU			3000211247	50001	Service Ita	1530	San Diego	County Dis	strict
9 1015	WE	D	100618134 Contr Svc	6,619	4/16/2018	4/16/2018	52000000 4		2018	В	Planning Stu	dy 500086020	1	AU			3000211247	50001	Service Ite	1530	San Diego	County Dis	strict
0 1015	WE	D	100628343 Contr Svc	23,166	5/16/2018	5/16/2018	52000000 5		2018	В	Planning Stu	di 500087654	1	AU			3000211247	50001	Service Ité	1530	San Diego	County Dis	strict
1 1015	WE	D	100628343 Contr Svc	7,659	5/16/2018	5/16/2018	52000000 5		2018	В	Planning Stu	di 500087654	1	AU			3000211247	50001	Service Ité	1530	San Diego	County Dis	strict
2 1015	SV	D	100640842 Contr Svc	36,404	6/29/2018	6/29/2018	52000000 6		2018	8 1015 POA	00000118774	5 100227032	0					0		1530	San Diego	County Dis	strict
3 1015	sv	D	100640842 Contr Svc	15,319	6/29/2018	6/29/2018	52000000 6		2018	8 1015 POA	000000117451	2 100227032	0					0		1530	San Diego	County Dis	strict
4 1015	SV	D	100640842 Contr Svc	13,238	6/29/2018	6/29/2018	52000000 6		2018	8 1015 POA	x 00000117448	9 100227032	0					0		1530	San Diego	County Dis	strict
5 1015	SV	D	100640842 Contr Svc	2,553	6/29/2018	6/29/2018	52000000 6		2018	8 1015 POA	00000118775	1 100227032	0					0		1530	San Diego	County Dis	strict
6 1015	SG	C	100640869 Contr Svc	(2,553)	7/1/2018	6/30/2018	52000000 7		2018	8 1015 POA	C00000118775	1 100227064	0					0		1530	San Diego	County Dis	strict
7 1015	SG	c	100640869 Contr Svo	(13,238)	7/1/2018	6/30/2018	52000000 7		2018	8 1015 POA	C00000117448	9 100227064	0					0		1530	San Diego	County Dis	strict
8 1015	SG	C	100640869 Contr Svo	(15,319)	7/1/2018	6/30/2018	52000000 7		2018	8 1015 PO/	C00000117451	2 10022706	0					0		1530	San Diego	County Dis	strict
9 1015	SG	C	100640869 Contr Svc	(36,404)	7/1/2018	6/30/2018	52000000 7		2018	8 1015 PO/	C00000118774	5 10022706	0					0		1530	San Diego	County Dis	strict
0 1015	WE	D	100641317 Contr Svc	13,238	7/2/2018	7/2/2018	52000000 7		2018	В	Planning Stu	dy 500090191	1	AU			3000211247	50001	Service Ite	1530	San Diego	County Dis	strict
1 1015	SV	D	100652523 Contr Svc	36,404	7/31/2018	7/31/2018	52000000 7		2018	8 1015 POA	00000118774	5 (100231480	0					0		1530	San Diego	County Dis	strict
2 1015	SV	D	100652523 Contr Svc	15,319	7/31/2018	7/31/2018	52000000 7		2018	8 1015 POA	x 00000117451	2 100231480	0					0		1530	San Diego	County Dis	strict
3 1015	SV	D	100652523 Contr Svc	2,553	7/31/2018	7/31/2018	52000000 7		2018	8 1015 POA	00000118775	1 100231480	0					0		1530	San Diego	County Dis	strict
4 1015	SG	C	100652594 Contr Svc	(2,553)	8/1/2018	8/1/2018	52000000 8		2018	8 1015 POA	00000118775	1 (100231484	0					0		1530	San Diego	County Dis	strict
5 1015	SG	C	100652594 Contr Svo	(15,319)	8/1/2018	8/1/2018	52000000 8		2018	8 1015 POA	C00000117451	2 100231484	0					0		1530	San Diego	County Dis	strict
6 1015	SG	C	100652594 Contr Svc	(36,404)	8/1/2018	8/1/2018	52000000 8		2018	8 1015 PO	x 00000118774	5 100231484	0					0		1530	San Diego	County Dis	strict
27 1015	WE	D	100660192 Contr Svc	2.553	8/20/2018	8/20/2018	52000000 8		2018	8	Planning Stu	dv 500092980	1	AU			3000211247	50001	Service Its	1530	San Diego	County Dis	strict

## **CAL-AM'S RESPONSE**

- a. Performance and completion of GIS collection tasks require multiple employees and/or contractors to be on site within close proximity of each other. As a result, to comply with COVID-19 restrictions and company safety guidance, minimal GIS Mapping work was completed in 2020. Please refer to California American Water's attachment CAW Response Cal ADV TGE 16 Q001 a-f Attachment 1 for 2018 to 2020 recorded spend.
- Please refer to California American Water's attachment CAW Response Cal ADV TGE 16 Q001 a-f Attachment 1.
- c. Please refer to CAW Response Cal ADV TGE 16 Q002 Attachment 1.

# **Snapshot of CAW Response Cal ADV TGE 16 Q001 a-f Attachment 1**

Company-	Document Nur	Cost element name	Val.in rep	Posting Date	Created on 🕒	GL Accour	Perio: Fiscal Yea	Name 🛌	Ref Docus	Total qua:	Posted unit o	Purchasing Docu	Item	Purchase order : D	strict N	District Name
1015	1005898060	Contract Svc-Eng - Natural	\$10,825	1/22/2018	1/22/2018	53110016	1 2018		50001335	0			0		1501	CAW Corporate
1015	1007137781	Contract Svc-Eng - Natural	\$10,775	1/22/2019	1/22/2019	53110016	1 2019		50001549	0			0		1501	CAW Corporate
1015	1007736208	Contract Svc-Eng - Natural	\$22,354	7/23/2019	7/23/2019	53110016	7 2019	Task Order 10340	50011110	1	AU	3000409104	10	Task Order 1034	1560	Sacramento District
1015	1007758415	Contract Svc-Eng - Natural	\$20,252	7/31/2019	7/31/2019	53110016	7 2019	Task Order 10340	50011170	1	AU	3000409104	10	Task Order 1034	1560	Sacramento District
1015	1007812046	Contract Svc-Eng - Natural	\$ 7,387	8/8/2019	8/8/2019	53110016	8 2019	Inv1003 Task Orde	50011214	1	AU	3000409104	10	Task Order 1034	1560	Sacramento District
1015	1007922252	Contract Svc-Eng - Natural	\$18,697	9/10/2019	9/10/2019	53110016	9 2019	GPS Collection Ser	50011394	1	AU	3000409104	20	GPS Collection Se	1560	Sacramento District
1015	1008012205	Contract Svc-Eng - Natural	\$13,528	10/3/2019	10/3/2019	53110016	10 2019	GPS Collection Ser	50011536	1	AU	3000409104	20	GPS Collection Se	1560	Sacramento District
1015	1008012207	Contract Svc-Eng - Natural	\$10,778	10/3/2019	10/3/2019	53110016	10 2019	GPS Collection Ser	50011536	1	AU	3000409104	20	GPS Collection Se	1560	Sacramento District
1015	1008062950	Contract Svc-Eng - Natural	\$ 6,998	10/23/2019	10/23/2019	53110016	10 2019	GPS Collection Ser	50011649	1	AU	3000409104	20	GPS Collection Se	1560	Sacramento District
1015	1008274970	Contract Svc-Eng - Natural	\$ 8,000	12/19/2019	12/19/2019	53110016	12 2019	GPS Collection Ser	50012006	1	AU	3000409104	20	GPS Collection Se	1560	Sacramento District
1015	1008274967	Contract Svc-Eng - Natural	\$ 8	12/19/2019	12/19/2019	53110016	12 2019	GPS Collection Ser	50012006	1	AU	3000409104	10	Task Order 1034	1560	Sacramento District
1015	1010017761	Contract Svc-Other - Natur	\$ 85	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1567	Hillview
1015	1010017761	Contract Svc-Other - Natur	\$ 277	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1566	Fruitridge
1015	1010017761	Contract Svc-Other - Natur	\$ 31	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1557	Rio Plaza
1015	1010017761	Contract Svc-Other - Natur	\$ 100	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1565	Meadowbrook
1015	1010017761	Contract Svc-Other - Natur	\$ 18	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1564	Geyserville
1015	1010017761	Contract Svc-Other - Natur	\$ 7	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1563	Dunnigan
1015	1010017761	Contract Svc-Other - Natur	\$ 129	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1561	Larkfield District
1015	1010017761	Contract Svc-Other - Natur	\$ 3,765	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1560	Sacramento District
1015	1010017761	Contract Svc-Other - Natur	\$ 1,273	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1551	Ventura County District
1015	1010017761	Contract Svc-Other - Natur	\$ 1,610	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1550	Los Angeles County District
1015	1010017761	Contract Svc-Other - Natur	\$ 1,684	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1540	Monterey County District
1015	1010017761	Contract Svc-Other - Natur	\$ 1,683	6/9/2021	6/9/2021	52501500	6 2021		50002104	0			0		1530	San Diego County District

# Attachment 27: Decision 18-12-021, Decision Adopting the 2018, 2019, and 2020 Revenue Requirement for California-American Water Company

Decision 18-12-021 December 13, 2018

## BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) for Authorization to Increase its Revenues for Water Service by \$34,559,200 or 16.29% in the year 2018, by \$8,478,500 or 3.43% in the year 2019, and by \$7,742,600 or 3.03% in the year 2020.

Application 16-07-002

# DECISION ADOPTING THE 2018, 2019, AND 2020 REVENUE REQUIREMENT FOR CALIFORNIA-AMERICAN WATER COMPANY

252251101 -1-

### 7.7. Comprehensive Planning Study and Geographic Information Systems

Cal-Am requests an overall budget of \$1,289,352 in 2018 for: (1) tasks related to Comprehensive Planning Studies (CPS) and the preparation of associated planning reports for each of its districts; 186 and (2) maintenance of Geographic Information System (GIS) system plans, maps, drawings, and other records as required pursuant to Commission General Order 103-A. 187

ORA argues that Cal-Am's forecasts for CPS/GIS work products in previous GRCs have been much higher than its actual expenses in these areas. ORA notes that Cal-Am incurred just 44% and 20% of its proposed CPS/GIS expenses in the two most recent Test Years, 2012 and 2015, respectively. Respectively. ORA also argues that given the fifteen year planning horizon and five to eight year cycle for preparing the CPSs, and given that the next cycle of UWMPs will be due in 2020, it is unnecessary for the Commission to authorize additional funds to update the CPS or UWMP in this GRC cycle. ORA recommends that the Commission approve Cal-Am's forecasted GIS expenses of \$654,160 for TY 2018 as a reasonable budget for all CPS/GIS related tasks.

Cal-Am argues that its proposed CPS/GIS budget for 2018 is justified based on the CPS/CBA study work that is planned for 2017, 2018, and into early

<sup>&</sup>lt;sup>186</sup> The typical tasks conducted under this budget usually include: CPSs; Emerging-Need Project Evaluations; Condition Based Assessments (CBAs); Urban Water Management Plans (UWMPs); and Strategic Capital Expenditure Plans. (Exh. CAW-12 at 193.)

 $<sup>^{187}\,</sup>$  Exh. CAW-12 at 194-195; Exh. CAW-31 at 8. For TY 2018, \$635,191 is budgeted for CPS expenses and \$654,160 is budgeted for GIS expenses.

<sup>&</sup>lt;sup>188</sup> Exh. ORA-6 at 7.

<sup>&</sup>lt;sup>189</sup> *Id.* at 7-9.

<sup>&</sup>lt;sup>190</sup> *Id.* at 10.

#### A.16-07-002 ALJ/SJP/EC2/jt2

2019. In March 2017, Cal-Am awarded CPS/CBA work to three firms and Cal-Am anticipates that these studies will be completed by the end of 2018. <sup>191</sup> Cal-Am argues that given that CPSs were last conducted in 2012 or 2013 for all of its districts, the completion date of 2018 falls within the typical five to eight year cycle for CPSs. <sup>192</sup> Cal-Am also states that it is also likely to perform supplemental studies in the next several years under the CPS/GIS expense line item. <sup>193</sup> Cal-Am further argues that ORA's focus solely on the 2012 TY and 2015 TY for CPS and CBA related study expenses is not reasonable since these studies are multi-year undertakings that can take anywhere from 18 to 24 months to complete. <sup>194</sup>

We find that Cal-Am has adequately justified its proposed budget for TY 2018 with respect to CPS-related tasks. Cal-Am's anticipated timeline for completing the CPS/CBA studies fits within the typical five to eight year cycle for these studies and will require work to be undertaken in this GRC cycle. The only information in the record regarding recorded CPS/GIS expenses are for TY 2012 and TY 2015, which was provided by ORA. We agree with Cal-Am that CPSs involve multi-year studies, and therefore, that a single year of recorded expenses is not a reasonable basis for determining a budget. A five-year historical average of CPS/GIS expenses is not available because these costs were not treated as expenses until 2012. 195 Given this lack of information regarding

<sup>&</sup>lt;sup>191</sup> Exh. CAW-31 at 5.

<sup>192</sup> Cal-Am Reply Brief at 19-20.

<sup>&</sup>lt;sup>193</sup> Exh. CAW-31 at 6.

<sup>&</sup>lt;sup>194</sup> *Id.* at 8.

<sup>195</sup> Exh. ORA-6 at 6.

#### A.16-07-002 ALJ/SJP/EC2/jt2

recorded expenses, we find Cal-Am's proposed CIS budget to be reasonable based on the documentation Cal-Am provided regarding the CPS/CBA work it has awarded that is to be completed in 2018.

On the other hand, we find that Cal-Am has failed to adequately justify its budget with respect to GIS work products. There is a lack of information in the record regarding Cal-Am's recorded expenses specifically for GIS work products. The only information available in the record indicates that Cal-Am significantly underspent its forecasted budget in 2012 and 2015 for the overall CPS/GIS category. Cal-Am recorded CPS/GIS expenses of \$603,103 in 2012 and \$269,560 in 2015. 196 In light of past recorded expenses, we do not find Cal-Am's proposed 2018 budget of \$654,160 for just GIS work products to be reasonable. Cal-Am indicates that regular preventative maintenance and licensing costs are part of the continuing GIS budget for 2018 and 2019 but does not provide adequate justification for budgeting for other GIS work products in this GRC cycle. 197

Given Cal-Am's justification for its budget for CPS-related tasks, we do not find it reasonable to reduce Cal-Am's forecasted CPS/GIS budget by 49% as recommended by ORA. On the other hand, although Cal-Am has adequately justified its budget for CPS-related tasks, Cal-Am has failed to adequately justify its budget related to GIS-related tasks. Therefore, we find reasonable Cal-Am's forecasted budget of \$635,191 for CPS-related tasks for 2018 but reduce Cal-Am's forecasted GIS budget of \$654,160 for 2018 by 50% to approve a total budget of \$962,271 for CIS/GIS expenses for TY 2018.

<sup>&</sup>lt;sup>196</sup> *Id.* at 7.

<sup>197</sup> Exh. CAW-31 at 7-8.

# Attachment 28: Projected Maps Expenses 2018-2021

#### **APPENDIX B:**

Settlement between California American Water, the Public Advocates Office at the California Public Utilities Commission; and the Cities of Duarte, San Marino, and Thousand Oaks

#### BEFORE THE PUBLIC UTILITIES COMMISSION

#### OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) for Authorization to Increase its Revenues for Water Service by \$25,999,900 or 10.60% in the year 2021, by \$9,752,500 or 3.59% in the year 2022, and by \$10,754,500 or 3.82% in the year 2023.

A.19-07-004 (Filed July 1, 2019)

#### CALIFORNIA-AMERICAN WATER COMPANY (U210W) NOTICE OF UPDATED SETTLEMENT AGREEMENT

#### [SETTLEMENT AGREEMENT ATTACHED]

Sarah E. Leeper Nicholas A. Subias Cathy Hongola-Baptista California-American Water Company 555 Montgomery Street, Suite 816 San Francisco, CA 94111 (415) 863-2960 sarah.leeper@amwater.com

Attorneys for Applicant California-American Water Company

February 24, 2021

# CALIFORNIA AMERICAN WATER 2019 GENERAL RATE CASE

A.19-07-004

**Attachment B-6 For Settlement** 

**Planning Studies and Mapping** 

Planning Studies and System Maps Costs							
District	Description	2020	2021	2022	2023		
CA- Corporate	Portable Generator and Power Shutoff Study		\$150,000				
	CA-Corporate Total	\$0	\$150,000	\$0	\$0		
	Urban Water Management Plan	\$20,000	\$20,000				
San Diego	Water Infrastructure Act Risk & Resiliency Assessment	\$20,000	\$20,000				
	Alternative Source of Supply Study		\$100,000	\$400,000	\$400,000		
	Maintenance of System Maps		\$46,503	\$47,898	\$49,332		
	San Diego Total	\$40,000	\$186,503	\$447,898	\$449,332		
	Urban Water Management Plan	\$20,000	\$25,000				
Sacramanta	Water Infrastructure Act Risk & Resiliency Assessment	\$40,000	\$165,000				
Sacramento	Wildfire Risk Assessment and Emergency Plan		\$52,000	\$52,000			
	Maintenance of System Maps		\$129,920	\$133,818	\$137,823		
	Sacramento Total	\$60,000	\$371,920	\$185,818	\$137,823		
	Water Infrastructure Act Risk & Resiliency Assessment		\$20,000				
Larkfield	Wildfire Risk Assessment and Emergency Plan		\$24,000	\$24,000			
	Maintenance of System Maps		\$5,118	\$5,271	\$5,429		
Larkfield Total			\$49,118	\$29,271	\$5,429		
	Urban Water Management Plan	\$22,500	\$22,500				
	Water Infrastructure Act Risk & Resiliency Assessment	\$20,000	\$95,000				
Los Angeles	Wildfire Risk Assessment and Emergency Plan		\$65,000	\$65,000			
	Tank Seismic Assessments		\$500,000				
	Well Master Plan		\$150,000				
	Maintenance of System Maps		\$61,368	\$63,209	\$65,101		
	Los Angeles Total	\$42,500	\$893,868	\$128,209	\$65,101		
	Urban Water Management Plan	\$20,000	\$20,000				
Ventura	Water Infrastructure Act Risk & Resiliency Assessment	\$20,000	\$20,000				
	Wildfire Risk Assessment and Emergency Plan		\$140,000	\$140,000			
	Water Storage Tank Seismic Study		\$700,000				
	SCADA Master Plan		\$50,000				
	Integrated Water Supply (IWS) Master Plan		\$550,000				
	Solar Power Study at Tank Sites			\$125,000			

Planning Studies and System Maps Costs								
District	Description	2020	2021	2022	2023			
	Turnout PRV Hydropower Study				\$125,000			
	CMWD Peak Supply Study		\$75,000					
	Maintenance of System Maps		\$43,574	\$44,881	\$46,225			
Ventura Total		\$40,000	\$1,598,574	\$309,881	\$171,225			
Monterey	Urban Water Management Plan	\$25,000	\$25,000					
	Water Infrastructure Act Risk & Resiliency Assessment	\$25,000	\$25,000					
	Wildfire Risk Assessment and Emergency Plan		\$260,000	\$260,000				
	SCADA Master Plan		\$222,250					
	Maintenance of System Maps		\$92,417	\$95,189	\$98,038			
	Monterey Total	\$50,000	\$624,667	\$355,189	\$98,038			

## Attachment 29: California American Water Los Angeles 2019 Comprehensive Planning Study (Redacted)



#### California American Water Los Angeles County District Comprehensive Planning Study – 2019

#### **FINAL JUNE 2019**



Mark Reifer, P.E. California American Water CA License No. C 74588

# California American Water Los Angeles County District 2019 Comprehensive Planning Study

Prepared by: Stantec Consulting Services, Inc.

June 2019

#### **EXECUTIVE SUMMARY**

This Comprehensive Planning Study (CPS) details the capital improvement recommendations for California American Water's (CAW) Los Angeles County District through the planning horizon (2035). The CPS presents a strategy for facility improvements to ensure that CAW can continue to provide safe, adequate and reliable service to its customers. Specifically, this report:

- 1. Presents customer and demand projections;
- Examines the need for additional source of supply capacity;
- 3. Evaluates the need to upgrade and renovate existing water distribution system facilities;
- 4. Addresses existing and proposed water quality and treatment standards;
- 5. Analyzes the water distribution system transmission and storage needs; and
- 6. Presents the capital improvement plan to address facility needs.

#### **OVERVIEW OF THE LOS ANGELES COUNTY DISTRICT**

The Los Angeles County District includes three individual service areas: Baldwin Hills, Duarte, and San Marino.

#### **CPS PROCESS**

The CPS was conducted in four steps. First, a system wide evaluation of District's systems was conducted using American Water's standard planning criteria for analysis of the water systems. The American Water Planning Criteria provides review and analysis guidance and methodology for the following key areas.

#### **Engineering Criteria**

- · Water demand Projections
- · Source of Supply analysis
- Source water quality and watershed protection
- · Treatment facility evaluation
- · Electrical service and standby power evaluations
- · Partnership for safe drinking water targets

#### 2.3 PLANNING CRITERIA

In planning future water facilities, accepted engineering standards and practices have been used to evaluate existing facilities. Using these standards and practices to evaluate the Los Angeles County District systems, an assessment is made to determine if adequate capacity and an appropriate level of reliability are present for domestic, commercial, industrial and fire protection needs. Appendix A provides an additional discussion of the criteria and regulations used in the evaluation of the water facilities.

#### 2.3.1 Customer and Demand Projections

Customer and demand projections provide the basis for evaluating future system needs. These projections of the total number of customers and their associated demands were developed for each system through 2035.

Projections were developed based on a review of population trends, historic customer and demand data, and local planning commission forecasts. The effects of water conservation are considered in the demand projections along with the analysis of historic water consumption trends. Demand projections also used the 2015 CAW Southern Division Los Angeles County District Urban Water Management Plan.

Three projections of water demand were developed for each system, referred to as the Low Growth, Most Likely Growth (or Base), and High Growth scenarios. The three water demand projections were generated by considering different forecasts of residential customer growth, increases in (or decline of) major commercial and industrial customer water consumption, and various levels of non-revenue and unaccounted-for water.

Residential customer growth is projected based on trends in historic customer figures as well as population and housing forecasts developed by State, county, and/or local planning agencies. In the Los Angeles County District systems, the Low Growth scenario may indicate that the residential customer base will remain constant or decline. Customer forecasts also account for new home construction, connection of existing homes on private water supplies to the systems, and acquisition of adjacent systems.

Per customer residential usage in gallons per customer per day is projected based on historic use patterns; consideration of the impacts of both existing and future water conservation efforts, including California's Water Conservation Act of 2009; and any potential changes in the number

of persons per household, based on the 2010 U.S. Census and the United States population projections from 2000 to 2050 published in 2009 by the U.S. Census.

Projections of commercial and industrial customers and water demand are based primarily on historic trends. Growth in commercial water demand generally follows residential growth trends, as commercial development typically goes hand in hand with residential growth. Since there are typically far fewer industrial customers than commercial customers, it is easier to identify changes in water demands by the major industries for use in forecasting industrial water demand.

Non-revenue water is projected based on historical annual data. Non-revenue water is defined as the difference between the total system delivery and the sum of all billed authorized (metered and flat rate) consumption. It includes water for firefighting, street cleaning, main flushing, and identifiable leakage or unbilled authorized consumption as well as water losses.

The average day demand projections are determined from a summation of forecasts for the individual classifications. Future maximum day to average day demand ratios are estimated using a statistical analysis of historical data. CAW's long-range forecasts use the criteria that facility planning should be based on meeting projected maximum day customer demands with a 95 percent confidence level. The confidence level value of 95 percent represents a level that is not expected to be exceeded more than once in 20 years. Planning facilities for a higher confidence level would result in higher capital costs for small incremental gains in reliability.

#### 2.3.2 Sources of Supply

CAW sources of supply should have the necessary quantity of water to meet the projected system demand, including average and maximum demands, and comply with all Federal and State regulations. The quality of the water from the sources of supply are regularly monitored for routine wet chemistry parameters such as pH, turbidity, alkalinity, parasites, microbes, etc., as well as for potential chemical contaminants.

CAW conducts water resource management activities and programs that are designed to protect, maintain, and monitor the efficient use of supply sources and the finished product water. These measures include managing water resources from both the supply and demand side. For example, this CPS looks at sources of supply as compared to projected demands to ensure demands and fire flow standards are met in each system. Continuation of these practices will assist in providing high quality service to the customer.

## Attachment 30: American Water Press Release - "California American Water Acquires Rio Plaza Water Company"

#### **Press Release**



June 04, 2019 | American Water (NYSE: AWK) | PDF

# California American Water Acquires Rio Plaza Water Company

Dateline City:

NEWBURY PARK, Calif.

California American Water assumes ownership and operations of the Rio Plaza Water Company

NEWBURY PARK, Calif.--(http://www.businesswire.com)--California American Water today announced the closing of acquisition and its commencement of operations of the Rio Plaza Water Company in Ventura County. Under the terms of an agreement approved by the California Public Utilities Commission, California American Water will be providing its newly welcomed customers with state-regulated potable water service beginning June 4, 2019.

"We look forward to welcoming our new Rio Plaza customers to California American Water and are eager to introduce them to our various programs that include rebates, free water conservation services and devices," said Chris Mattis, Director of Southern California Operations. "California American Water maintains a staff of qualified personnel who are experts in their field and duly certified by the California State Water Resources Control Board. And our commitment to Rio Plaza customers includes ensuring they have access to safe and reliable water services at a reasonable rate."

California American Water purchased the Rio Plaza water system of approximately 500 customers from the Nickel family of Moorpark, California. The Nickel family has owned

and operated the water system for two generations.

"California American Water and Rio Plaza Water Company share a goal of providing dependable water services to customers in Ventura County," said John Chris Nickel, Sr. of the Rio Plaza Water Company. "We believe California American Water will provide the best service to our customers and we look forward to their active participation in the community."

California American Water, a subsidiary of American Water (NYSE: AWK), provides high-quality and reliable water and/or wastewater services to more than 675,000 people. California American Water's Ventura County service district includes approximately 21,000 households and businesses and serves a population of approximately 63,000 in the cities of Camarillo, Thousand Oaks, and the community of Newbury Park as well as unincorporated portions of Ventura County. More information can be found at www.californiaamwater.com.

With a history dating back to 1886, American Water is the largest and most geographically diverse U.S. publicly traded water and wastewater utility company. The company employs more than 7,100 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to more than 14 million people in 46 states and Ontario, Canada. American Water provides safe, clean, affordable and reliable water services to our customers to make sure we keep their lives flowing. For more information, visit amwater.com and follow American Water on Twitter, Facebook and LinkedIn.

Language:		
English		
Contact:		
Kevin Tilden		

Office: 619-466-4762

Email: mailto:kevin.tilden@amwater.com

Attachment 31: American Water Press Release - "California American Water Acquires the Operating Assets of the Fruitridge Vista Water Company"

#### **Press Release**



February 04, 2020 | American Water (NYSE: AWK) | PDF

# California American Water Acquires the Operating Assets of the Fruitridge Vista Water Company

Dateline City:

SACRAMENTO, Calif.

SACRAMENTO, Calif.--(http://www.businesswire.com)--California American Water acquired the Fruitridge Vista Water Company's operating assets and has become the new water provider to its approximately 4,800 customers.

The transaction was finalized on February 4 th and California American Water assumed operation of the system on that date.

Fruitridge Vista was a Class B Water Utility in south Sacramento County and is regulated by the California Public Utilities Commission. California American Water currently supplies water service to nearly 60,000 homes and businesses in the Sacramento region and nearly 180,000 customers within the State of California. Fruitridge Vista Water Company customers will now be served by California American Water's water treatment and distribution operators who are experts in their fields certified through the California State Water Resources Control Board's Division of Drinking Water. Professionals from the company's water quality, engineering and finance groups will also lend their expertise.

California American Water staff have been working for the better part of a year to ensure a smooth integration for these new customers. This process includes billing and operational services as well as in-depth assessment and planning for Fruitridge's most

urgent capital investment needs. "We are pleased to welcome the Fruitridge customers to the California American Water family," said California American Water President Rich Svindland. "This acquisition will allow Fruitridge Vista customers to take advantage of our excellent conservation and customer service programs. We are also planning on improving the system and make the capital investments this system needs."

Former Fruitridge Vista customers should now call California American Water customer service center at 888 237-1333 for questions about water service, billing or to report water system emergencies. The company will be sending new customer information packets to each new customer.

About California American Water: California American Water, a subsidiary of American Water (NYSE: AWK), provides high-quality and reliable water and/or wastewater services to more than 690,000 California residents. Information regarding California American Water's service areas can be found on the company's website www.californiaamwater.com.

About American Water: With a history dating back to 1886, American Water is the largest and most geographically diverse U.S. publicly traded water and wastewater utility company. The company employs more than 7,100 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to more than 14 million people in 46 states. American Water provides safe, clean, affordable and reliable water services to our customers to make sure we keep their lives flowing. For more information, visit amwater.com and follow American Water on Twitter, Facebook and LinkedIn.

Language:
English
Contact:
Evan Jacobs
Director of Regulatory Policy and Case Management

## Attachment 32: American Water Press Release - "California American Water Acquires Hillview Water Company"

#### **Press Release**



June 24, 2020 | American Water (NYSE: AWK) | PDF

# California American Water Acquires Hillview Water Company

Dateline City:

SACRAMENTO, Calif.

SACRAMENTO, Calif. --(http://www.businesswire.com/)--California American Water has closed its agreement to acquire the Hillview Company to become the new water provider to its approximately 1,500 customers.

Hillview Water Company is a family owned Water Utility in Madera County and is regulated by the California Public Utilities Commission. It serves approximately 1,500 homes and businesses in Oakhurst, Raymond, and Coursegold. California American Water currently supplies water service to over 60,000 homes and businesses in the Central Valley and nearly 180,000 customers within the State of California. Hillview Water Company customers will be served by California American Water's water treatment and distribution operators who are experts in their fields certified through the California State Water Resources Control Board's Division of Drinking Water. "We are pleased to begin operations and look forward to serving our Hillview customers," said California American Water's Director of Northern California Operations S. Audie Foster. "We are working closely with the current Hillview team to welcome them to California American Water."

Hillview customers are expected to receive welcome packets and customer information by mail. The information includes new contact information, payment options and restrictions on the local office during the COVID-19 emergencies. "We have worked hard

to serve our community and I'm pleased to welcome California American Water to our area," said Hillview Water Company co-owner Roger Forrester.

In 2021, California American Water expects to expand its services and programs to the Hillview area, including its Low Income Rate Assistance program and at-home conservation services. However, customers will have immediate access to its 24-hour customer service line (1-888-237-1333) for questions about water service, billing or to report water system emergencies. In addition, Hillview customers will also have access to California American Water's online customer service portal, MyWater, where they can review their account, pay bills and read important service announcements in different languages.

California American Water will keep open the local Hillview Company Office.

About California American Water: California American Water, a subsidiary of American Water (NYSE: AWK), provides high-quality and reliable water and/or wastewater services to more than 690,000 California residents. Information regarding California American Water's service areas can be found on the company's website www.californiaamwater.com.

About American Water: With a history dating back to 1886, American Water is the largest and most geographically diverse U.S. publicly traded water and wastewater utility company. The company employs more than 6,800 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to 15 million people in 46 states. American Water provides safe, clean, affordable and reliable water services to our customers to make sure we keep their lives flowing. For more information, visit amwater.com and follow American Water on Twitter, Facebook and LinkedIn.

Language:			
English			
Contact:			

# Attachment 33: Metropolitan Water District – Rate Structure Administrative Procedures Handbooks for Fiscal Year 2021-2022 and Fiscal Year 2022-2023



#### **Rate Structure Administrative Procedures Handbook**

FY 2021/22

Rate Structure Administrative Procedures Handbook Page i

#### 5 Capacity Charge

#### 5.1 Purpose

The Capacity Charge recovers costs incurred to provide peaking capacity within Metropolitan's distribution system.

The Capacity Charge provides a price signal to encourage member agencies to reduce peak day demands on the system and to shift demands that occur during the May 1 through September 30 period into the October 1 through April 30 period. This results in more efficient utilization of Metropolitan's existing infrastructure and defers capacity expansion costs.

#### 5.2 Administration

Each member agency will pay the Capacity Charge based on a three-year trailing maximum peak day flow. Due to accepted certifications and error corrections, peak day flows may change for up to three years after the month of delivery. Therefore, the Three Year Trailing Max Peak Day is calculated with a one-year lag.

Table 4

Calendar Year 2022 Capacity Charge							
			Demand (cfs)				
	(May 1 through September 30)						
		\$12,200					
					Calendar Year 2022		
AGENCY	2018	2019	2020	3-Year Peak	Capacity Charge		
Anaheim	37.2	37.1	84.1	84.1	1,026,020		
Beverly Hills	27.8	23.5	23.2	27.8	339,160		
Burbank	17.1	17.3	16.6	17.3	211,060		
Calleguas	184.7	168.9	178.2	184.7	2,253,340		
Central Basin	39.2	48.6	51.9	51.9	633,180		
Compton	6.9	2.9	-	6.9	84,180		
Eastern	225.1	196.8	215.8	225.1	2,746,220		
Foothill	19.9	16.0	19.3	19.9	242,780		
Fullerton	13.3	13.1	14.1	14.1	172,020		
Glendale	33.5	32.2	37.9	37.9	462,380		
Inland Empire	147.8	118.7	98.4	147.8	1,803,160		
Las Virgenes	45.9	39.4	41.7	45.9	559,980		
Long Beach	80.4	51.8	67.3	80.4	980,880		
Los Angeles	284.6	283.2	339.0	339.0	4,135,800		
MWDOC	442.3	263.2	272.2	442.3	5,396,060		
Pasadena	43.0	39.9	46.4	46.4	566,080		
San Diego	855.5	672.1	723.4	855.5	10,437,100		
San Fernando	-	-	-	-	-		
San Marino	4.5	2.3	7.3	7.3	89,060		
Santa Ana	19.3	19.4	21.7	21.7	264,740		
Santa Monica	16.7	20.7	17.0	20.7	252,540		
Three Valleys	142.9	128.1	134.3	142.9	1,743,380		
Torrance	32.6	27.8	28.9	32.6	397,720		
Upper San Gabriel	23.3	29.1	21.1	29.1	355,020		
West Basin	197.9	211.8	196.0	211.8	2,583,960		
Western	194.7	186.1	178.3	194.7	2,375,340		
Total	3,136.1	2,650.0	2,834.1	3,287.8	40,111,160		

Totals may not foot due to rounding

Data as of 3/2021

Rate Structure Administrative Procedures Handbook

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#### **Rate Structure Administrative Procedures Handbook**

FY 2022/23

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#### 5 Capacity Charge

#### 5.1 Purpose

The Capacity Charge recovers costs incurred to provide peaking capacity within Metropolitan's distribution system.

The Capacity Charge provides a price signal to encourage member agencies to reduce peak day demands on the system and to shift demands that occur during the May 1 through September 30 period into the October 1 through April 30 period. This results in more efficient utilization of Metropolitan's existing infrastructure and defers capacity expansion costs.

#### 5.2 Administration

Each member agency will pay the Capacity Charge based on a three-year trailing maximum peak day flow. Due to accepted certifications and error corrections, peak day flows may change for up to three years after the month of delivery. Therefore, the Three Year Trailing Max Peak Day is calculated with a one-year lag.

Table 4

Calendar Year 2023 Capacity Charge						
		Peak Day [	Demand (cfs)			
		Rate (\$/cfs):				
	_	\$10,600				
					Calendar Year 2023	
AGENCY	2019	2020	2021	3-Year Peak	Capacity Charge	
Anaheim	37.1	84.1	77.2	84.1	891,460	
Beverly Hills	23.5	23.2	24.8	24.8	262,880	
Burbank	17.3	16.6	15.5	17.3	183,380	
Calleguas	168.9	178.2	189.6	189.6	2,009,760	
Central Basin	48.6	51.9	54.1	54.1	573,460	
Compton	2.9	-	-	2.9	30,740	
Eastern	196.8	211.5	215.3	215.3	2,282,180	
Foothill	16.0	19.3	22.8	22.8	241,680	
Fullerton	13.1	14.1	20.0	20.0	212,000	
Glendale	32.2	37.9	32.5	37.9	401,740	
Inland Empire	118.7	98.4	101.4	118.7	1,258,220	
Las Virgenes	39.4	41.7	42.9	42.9	454,740	
Long Beach	51.8	67.3	45.7	67.3	713,380	
Los Angeles	283.2	339.0	584.1	584.1	6,191,460	
MWDOC	262.8	272.0	332.4	332.4	3,523,440	
Pasadena	39.9	46.4	48.2	48.2	510,920	
San Diego	672.1	723.4	672.5	723.4	7,668,040	
San Fernando	-	-	-	-	-	
San Marino	2.3	7.3	5.4	7.3	77,380	
Santa Ana	19.4	21.7	18.3	21.7	230,020	
Santa Monica	20.7	17.0	15.1	20.7	219,420	
Three Valleys	128.1	134.3	138.3	138.3	1,465,980	
Torrance	27.8	28.9	27.2	28.9	306,340	
Upper San Gabriel	29.1	21.1	32.4	32.4	343,440	
West Basin	211.8	196.0	218.2	218.2	2,312,920	
Westem	186.1	175.1	189.4	189.4	2,007,640	
Total	2,649.6	2,826.4	3,123.3	3,242.7	34,372,620	

Totals may not foot due to rounding

Data as of 3/2022

Rate Structure Administrative Procedures Handbook