1 2 3 4 BEFORE THE PUBLIC UTLITIES COMMISSION 5 OF THE STATE OF CALIFORNIA 6 Application of California-American Water 7 Company (U210W) for Approval of the A.12-04-019 Monterey Peninsula Water Supply Project and (Filed April 23, 2012) 8 Authorization to Recover All Present and Future Costs in Rates 9 10 11 12 13 14 REBUTTAL TESTIMONY OF JEFFREY T. LINAM 15 16 17 18 Sarah E. Leeper 19 Nicholas A. Subias California-American Water Company 20 555 Montgomery Street, Suite 816 San Francisco, CA 94111 21 Telephone: 415.863.2960 Facsimile:415.397.1586 22 Email: sarah.leeper@amwater.com 23 Attorneys for Applicant California-American Water Company 24 25 26 Dated: March 22, 2016 27 28

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| 1 | BEFORE THE PUBLIC UTLITIES COMMISSION | | |
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| 2 | OF THE STATE OF CALIFORNIA | | |
| 3 | Application of California-American Water Company (U210W) for Approval of the Monterey Peninsula Water Supply Project and Authorization to Recover All Present and Future Costs in Rates A.12-04-019 (Filed April 23, 2012) | | |
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| 9 | | REBUTTAL TESTIMONY O | F JEFFREY T. LINAM |
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| 12 | I. | WITNESS QUALIFICATIONS | |
| 13 | Q1. | Q1. Please state your name, business address and telephone number. | |
| 14 | A1. | My name is Jeffrey T. Linam. My business | address is 1033 B Avenue, Suite 200, |
| 15 | | Coronado, CA 92118. My telephone numbe | r is (619) 522-6376. |
| 16 | | | |
| 17 | Q2. | Have you previously supplied your qualifica | tions in this proceeding? |
| 18 | A2. | Yes, I provided my qualifications in my Dire | ct Testimony in this proceeding which was |
| 19 | | served on April 23, 2012. | |
| 20 | | | |
| 21 | Q3. | Q3. Are there any changes to your qualifications? | |
| 22 | A3. | A3. Yes. My current title is Director of Rates for California American Water. My previous | |
| 23 | | title was Director of Finance. | |
| 24 | | | |
| 25 | II. | INTRODUCTION AND PURPOSE OF T | ESTIMONY |
| 26 | Q4. | What is the purpose of your rebuttal testimor | ny? |
| 27 | A4. | A4. The purpose of my rebuttal testimony is three fold: 1) provide some updates to the | |
| 28 | | MPWSP financial model and comparative life | e cycle costs, 2) make corrections or |

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clarifications to some of the positions or statements made by the Office of Ratepayer Advocates ("ORA") in their January 22, 2016 Supplemental Testimony, and 3) address the comments of the Monterey Peninsula Water Management District ("MPWMD") and ORA in their respective Supplemental Testimony, submitted on January 22, 2016.

III. UPDATES TO THE MPWSP FINANCIAL MODEL

- Q5. Are there any updates that need to be made to the MPWSP financial model and comparative life cycle costs that were presented in your Supplemental Testimony submitted on January 22, 2016?
- A5. Yes. The financial model that was used to calculate the Year 1 revenue requirement and net present value ("NPV") of the life cycle costs for the two alternative cases was titled "2015 Monterey Desalination Model v8.4." This model was made available to parties in this proceeding upon request and I had separate meetings with ORA and MPWMD staff to go over the details of the model. The review of the financial model included the calculations related to the cost comparison and life cycle costs for the 9.6 million gallons per day ("MGD") scenario and the 6.4 MGD plant with Groundwater Replenishment ("GWR") scenario. A correction to the model was discussed with MPWMD General Manager, David Stoldt. Specifically, the worksheet that calculates the annual operations and maintenance ("O&M") costs for the GWR project referenced an incorrect escalation rate. The implications are that the GWR power costs escalate at 4.8% per year regardless of the power escalation assumption. California American Water assumed a power escalation of 3.0% for the base case comparison. The result of correcting the reference in the GWR O&M worksheet is that it reduces the difference between the NPV life cycle costs between the two alternative by \$6.7 million. The difference in the NPV life cycle costs between the 9.6 MGD plant and the 6.4 MGD Plant with GWR is \$26.3 million with the life cycle costs of \$687.3 million and \$713.6 million for the large and small plants, respectively. It also necessitates a change to Attachments 4 and 5 that were submitted with my January 22, 2016 Supplemental Testimony. I have included as

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1 The correction to the power cost escalation for GWR does not impact the Year 1 revenue requirement or cash flow for the project construction that was provided in Attachment 1 and 2 to my January 22, 2016 supplemental testimony.

Q6. Are there any additional changes that are needed to the MPWSP financial model?

A6. Yes. As described in the January 22, 2016 Supplemental Testimony of Mr. Richard Svindland, the Year 1 revenue requirement does not include a lease payment for the outfall costs, but rather the capital costs related to the desalination plants include \$2.6 million for capacity charges along with other capital improvements to be paid to the Monterey Regional Water Pollution Control Agency ("MRWPCA"). This is due to the fact that the terms and pricing of the contract still need to be negotiated. California American Water does not agree, nor does it necessarily support, an annual outfall lease payment of \$829,000 and \$860,000 for the 6.4 MGD and 9.6 MGD plants, respectively, in Year 1. These outfall lease payment costs were not reflected in the Year 1 revenue requirement numbers submitted with my Supplemental Testimony on January 22, 2016. However, these costs were included in the life cycle analysis submitted on January 22, 2016 to include amounts estimated by MPWMD for comparison purposes only. If the outfall lease payments are excluded, the NPV life cycle costs would be \$672.7 million and \$699.5 million for the large plant and small plant with GWR, respectively. This would result in a difference of \$26.8 million.

Q7. Are there any other changes that California American Water proposes to the MPWSP financial model, Year 1 revenue requirement or life cycle analysis?

A7. No.

IV. CORRECTIONS TO ORA'S POSITIONS

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A. Cost Certainty Under the Water Purchase Agreement

- Q8. Do you agree with ORA's claim that there would be greater cost certainty under the GWR project?
- A8. No. I am not sure how ORA reaches its conclusion. Page 6 of the ORA testimony states, "A WPA [water purchase agreement] with a purchase price or a defined methodology for calculating prices for water from GWR with an associated price cap would provide significantly more cost certainty." First, Richard Svindland has discussed the level of certainty on capital costs for the desalination plant sizes. California American Water has gone through an extensive request for proposal ("RFP") process and awarded final bids for most of the components of the desalination project. Second, the purchased water costs to California American Water from the GWR plant will be based on the sum of the fixed project costs and project O&M costs to produce the water. If there is a capital cost overrun or if operating costs increase, those will be passed on to California American Water customers through higher unit water cost. The WPA does not establish a long term fixed price. MPWMD may choose to adjust prices on an annual or periodic basis and California American Water will file an advice letter to adjust rates for the purchased water offset, just as it does in its other districts. Third, the WPA does not include a price cap. California American Water, MPWMD and MRWPCA are all working to provide greater price certainty for the respective projects.
- Q9. Has ORA accurately described the cost caps that apply to the desalination facilities?
- A9. Not exactly. Section 6.7 of the July 31, 2013 Settlement Agreement, Attachment A, describes two cost caps. ORA is correct that the cost caps are not absolute. If California American Water's costs exceed the initial cost cap, it may seek recovery for reasonable and prudent costs above the caps by filing a Tier 2 advice letter. If California American Water's costs exceed the higher cap, it will file a petition for modification with the Commission for recovery.

B. Return Water

- Q10. ORA states that there could be significant customer cost impacts as a result of uncertainty around the return water that is required as a result of the Agency Act. Has California American Water prepared an analysis of the possible impacts from a higher level of brackish groundwater?
- A10. Yes. The supplemental testimony that I provided on January 22, 2016 provided the financial impacts should the test well salinity remain at the current level of 92.5% rather than the design criteria of 96.0%. The supplemental testimony of Richard Svindland provides the analysis and cost information, and the rebuttal testimony of Richard Svindland explains that the desalination plant's size and the costs as currently estimated can accommodate various return obligation scenarios. Attachment 5 of my supplemental testimony provides the impact to the Year 1 revenue requirement and the impact to the net present value of the lifecycle costs. This scenario reduces the Year 1 revenue requirement gap by \$0.6 million and the NPV gap by \$10.2 million from the base case results.

V. WATER PURCHASE AGREEMENT RATE RECOVERY PROCESS & DEBT EQUIVALENCE

- Q11. Do you agree with MPWMD General Manager, David Stoldt's position that the GWR contract does not trigger debt equivalence?
- A11. No. I believe that the risk has been reduced based on the provisions in the WPA.

 However, ORA has requested changes be made to the WPA that were not clearly specified in their rebuttal testimony. If the WPA is changed by the Commission now or in the future, the issue of debt equivalence may become an issue. Also, our assessment is based on the credit rating guidelines provided by the rating agencies today. The rating agency may change that view. As discussed in the testimony of Mr. Richard Svindland, California American Water will need the water produced to meet its legal obligations.

Q12. Does this conclude your rebuttal testimony?

A12. Yes it does.

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ATTACHMENT 4A

REBUTTAL TESTIMONY OF JEFFREY T. LINAM CALIFORNIA AMERICAN WATER MONTEREY PENINSULA WATER SUPPLY PROJECT (A.12-04-019)

MARCH 22, 2016

Monterey Peninsula Desal Project Scenario Impact to NPV

Year 1
Revenue Requirement

| | 6.4 MGD | | W 4 7 |
|-----------------------------|----------------------------------|----------|----------------|
| | + GWR | 9.6 MGD | Difference |
| Baseline Scenario NPV (\$M) | 713.6 | 687.3 | 26.3 |
| | | | |
| NPV Impact to Ba | seline Scenario (| \$M) | |
| Power Inflation | Rate (3% baselin | e) | the section of |
| 2% | (19.2) | (21.5) | 2.3 |
| 4% | 23.0 | 26.1 | (3.0) |
| 6% | 84.9 | 96.2 | (11.3) |
| GWR SFR Interes | t Rate (1% baseli | ne) | |
| 0.5% | (2.6) | 0.0 | (2.6) |
| 1.5% | 2.8 | 0.0 | 2.8 |
| 2.0% | 5.7 | 0.0 | 5.7 |
| Grants Received for | or GWR (\$0 Basel | ine) | |
| \$5.0 | (2.9) | 0.0 | (2.9) |
| \$10.0 | (5.9) | 0.0 | (5.9) |
| \$17.5 | (10.4) | 0.0 | (10.4) |
| \$20.0 | (11.9) | 0.0 | (11.9) |
| MCWD/MCWRA Contr | | aseline) | |
| \$0.0 | 2.7 | 0.0 | 2.7 |
| \$15.0 | (6.2) | 0.0 | (6.2) |
| \$25.0 | (12.1) | 0.0 | (12.1) |
| GWR Amount to Fina | | | |
| -\$10.0 | (5.9) | 0.0 | (5.9) |
| +\$10.0 | 6.0 | 0.0 | 6.0 |
| +\$20M | 12.0 | 0.0 | 12.0 |
| +\$30M | 17.9 | 0.0 | 17.9 |
| Cost per Acre Foo | | | |
| -10% (\$1,600) | (12.2) | 0.0 | (12.2) |
| +10% (\$2,000) | 12.4 | 0.0 | 12.4 |
| +25% (\$2,200) | 30.8 | 0.0 | 30.8 |
| +50% (\$2,700) | 61.5 | 0.0 | 61.5 |
| 7.5% | e (5% baseline) | (164.0) | (4.0) |
| 7.5% 9.0% | (169.7) | (164.9) | (4.8) |
| 9.0% 11.5% | (242.3) | (235.2) | (7.1) |
| | (331.9) ? ("Yes" baseline | (321.8) | (10.1) |
| No | (14.1) | (14.6) | 0,5 |
| 110 | (14.1) | (14.0) | 0.5 |

| 6.4 MGD | | | | |
|---------|-----------------|--|--|--|
| + GWR | 9.6 MGD | | | |
| 43.6 | 41.3 | | | |
| | | | | |
| | K of the second | | | |
| | | | | |
| | | | | |
| 43.4 | 41.1 | | | |
| 43.8 | 41.6 | | | |
| 44.2 | 42.1 | | | |
| | | | | |
| 43.4 | 41.3 | | | |
| 43.8 | 41.3 | | | |
| 43.9 | 41.3 | | | |
| | | | | |
| 43.4 | 41.3 | | | |
| 43.2 | 41.3 | | | |
| 42.9 | 41.3 | | | |
| 42.8 | 41.3 | | | |
| | | | | |
| 43.8 | 41.3 | | | |
| 43.2 | 41.3 | | | |
| 42.8 | 41.3 | | | |
| | | | | |
| 43.2 | 41.3 | | | |
| 44.0 | 41.3 | | | |
| 44.4 | 41.3 | | | |
| 44.7 | 41.3 | | | |
| | | | | |
| 42.9 | 41.3 | | | |
| 44.2 | 41.3 | | | |
| 45.2 | 41.3 | | | |
| 46.7 | 41.3 | | | |
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Notes: Positive numbers increase the NPV, which is more expensive for the customer.

Baseline NPV is calculated at 5% discount rate, as are other scenario impacts.

The impact of changes to the cost per AF for GWR is not additive with other changes.

Rate Assumptions 1-14 remain the same from the January 22, 2016 Attachment 4.

ATTACHMENT 5A

REBUTTAL TESTIMONY OF JEFFREY T. LINAM CALIFORNIA AMERICAN WATER MONTEREY PENINSULA WATER SUPPLY PROJECT (A.12-04-019)

MARCH 22, 2016

| | 6.4 MGD | | |
|-----------------------------|------------------|---------|------------|
| Project NPV | + GWR | 9.6 MGD | Difference |
| Base Case | 713.6 | 687.3 | (26.3) |
| Increased Capex & Opex | 5.1 | 15.3 | 10.2 |
| Total with Lower Salinity | 718.7 | 702.6 | (16.2) |
| Year 1 Cost to the Customer | 6.4 MGD + GWR | 9.6 MGD | Difference |
| Base Case | 43.6 | 41.3 | (2.3) |
| Incrased Capex & Opex | 0.4 | 1.0 | 0.6 |
| Total with Lower Salinity | 44.0 | 42.3 | (1.7) |

Note - project NPV used a discount rate of 5.0%

BEFORE THE PUBLIC UTLITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) for Approval of the Monterey Peninsula Water Supply Project and Authorization to Recover All Present and Future Costs in Rates

A.12-04-019 (Filed April 23, 2012)

CERTIFICATE OF SERVICE OF REBUTTAL TESTIMONY OF JEFFREY T. LINAM

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Attorneys for Applicant California-American Water Company

Dated: March 22, 2016

CERTIFICATE OF SERVICE

I, Cynthia Jawad Russell, declare as follows:

I am employed in the City and County of San Francisco, California. I am over the age of eighteen years and not a party to this action. My business address is 555 Montgomery Street, Suite 816, San Francisco, California 94111. On the below date, I served the within:

REBUTTAL TESTIMONY OF JEFFREY T. LINAM

on the interested parties in this action addressed as follows:

See attached service list

- ⊠ (BY E-MAIL SERVICE) By transmitting such document(s) electronically from California-American Water Company, San Francisco, California, to the electronic mail addresses listed on the Official Service List, which is current as of this date. I am readily familiar with the practice of California-American Water Company for transmitting documents by electronic mail, said practice being that in the ordinary course of business, such electronic mail is transmitted immediately after such document has been tendered for filing. Said practice also complies with Rule 1.10(b) of the Public Utilities Commission of the State of California and all protocols described therein.
- (BY U.S. MAIL) By placing such document(s) in a sealed envelope, addressed as set forth on the Official Service List, with postage thereon fully prepaid for first-class mail, for collection and mailing at California-American Water Company, San Francisco, California, following the ordinary business practice. I am readily familiar with the practice of California-American Water Company for collection and processing of correspondence for mailing with the United States Postal Service, said practice being that in the ordinary course of business, correspondence is deposited in the United States Postal Service the same day as it is placed for collection.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration was executed on **March 22, 2016**, in San Francisco, California.

| /s/ Cynthia Jawad Russell |
|---------------------------|
| Cynthia Jawad Russell |

CALIFORNIA PUBLIC UTILITIES COMMISSION **Service Lists**

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