Validator Provided

CA-NV AWWA Water Loss
Water Audit Level 1 Validation Document

Audit Information:

Utility: Contra Costa Water District PWS ID: 0710003

System Type: Potable Audit Period: Calendar Year 2017

Utility Representation: Cristina Estrella, Chris Dundon, Dominic Debellis

Validation Date: 9/19/2018 Call Time: 2pm Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 63 Data Validity Band (Level): Band III (51-70)

ILI: 1.00 Real Loss: 16.04 (gal/conn/day) Apparent Loss: 7.53 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 2.0%

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

If not, rejected recommendations are included here.

Validator Information:

Water Audit Validator: Dan Jones Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA

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Water Supplier Name: Contra Costa Water District **Water Supplier ID Number:** 0710003 **Water Audit Period:** Calendar Year 2017

Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

Changed from reporting on a fiscal year to a calendar year basis. Due to the fact that consumption meters are read bi-monthly, authorized consumption (billed metered) monthly values and the actual time range of water use do not overlap one-to-one. Reporting on a fiscal year basis, where the reporting year end coincides with the highest water use (CCWD's fiscal year spans from July 1 to June 30) , exacerbates the difference between authorized consumption and production values. By reporting on a calendar year basis, reporting year end coincides with a lower water use month, mitigates that difference as well as apparent losses associated with that difference. The District will look into prorating monthly consumption data in the future as recommended by WSO.

Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audit and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Executive Name (Print)	Executive Position	Signature	Date
Jeff Quimby	Director of Planning	Jeff Quimby	9/28/18