American Water Works Association
California-Nevada Section

CA-NV AWWA Water Loss Technical Assistance Program

Wave 4 Water Audit Level 1 Validation Document

Validator Provided

Audit Information:

Utility: LAKE ARROWHEAD CSD PWS ID: 3610005

System Type: Potable Audit Period: Fiscal Year 2016/17

Utility Representation: Mark Lopez (Customer Service Supervisor), Marc Lippert (Water Treatment Supervisor), Steve Papp (Water Distributions Supervisor)

Validation Date: 8/24/2017 Call Time: 9am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 62 Data Validity Band (Level): Band III (51-70)

ILI: 1.43 Real Loss: 29.64 (gal/conn/day) Apparent Loss: 2.62 (gal/conn/day)

Non-Revenue Water as a Percentage of Operation Costs: 4.3%

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. ☒

Validator Information:

Water Audit Validator: Kate Gasner / Carolyn Prescott (support)
Validator Qualifications: Contractor for CA-NV AWWA Water Loss TAP

WSO CAVANAUGH

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Water System Name: Lake Arrowhead Community Service District **Water System ID Number:** CA3610005 **Water Audit Period:** Fiscal Year 2016/17

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:

Improved estimation of customer meter by random testing for accuracy and replacing as needed.

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 Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Catherine Cerri	General Manager		9/21/2017
Executive Name (Print)	Executive Position	Signature	Date

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