# Level 1 Validation Certificate

WSO

This document verifies that the Level 1 Validation process was completed. The session details and audit review outcomes are included here.

*This certificate is required for submission – alongside the Level 1 validated water audit software file – to the California Department of Water Resources.*

Call Date: 10/28/2020

## Water Supplier

Supplier Name: Lake Arrowhead Community Service District

Supplier Participants: John O'Brian, Scott Schroder, Steve Papp, Mica O'Connell, Marc Lippert

## Validator

Validator: Kris Williams, Water Systems Optimization

Validator Qualifications: Water Audit Validator Certificate from the AWWA California Nevada Section

## Key Audit Metrics

| | | |
|---|---|---|
| Data Validity Score: | 68 | |
| ILI: | n/a | |
| Real Loss: | 12.91 | gal / conn / day |
| Apparent Loss: | 1.34 | gal / conn / day |
| Non-Revenue Water as Percent of Cost of Operating System: | 1.5% | |

## 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. ☒

# Level 1 Validation – Water Supplier Confirmation

This document confirms participation in and endorsement of the Level 1 Validation as completed.

*This acknowledgement is required for submission – alongside your Level 1 validated water audit software file – to the California Department of Water Resources.*

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|---|---|
| Water Supplier Name: | Lake Arrowhead Community Services District Deer Lodge Park |
| Water Supplier Public Water System ID: | 3600087 |
| Water Audit Period: | FY 18/19 |

Water Audit & Water Loss Improvement Steps

*Steps taken in the audit period timeframe to increase data source accuracy, reduce real losses, and/or reduce apparent losses, as informed by the water audit.*

1. Source Water meter testing with WSO Water Systems Optimization Inc

2. 10% of all customer meters that are swapped out are bench tested for accuracy

3. SCADA calibrations annually with source water meters

4. Read verify process on every customer meter and the MIU to make sure that we have meter reading accuracy.

5. Proactive leak detection and valve maintenance of the distribution system. This includes listening to all District valves, hydrants and customer service lines.

Certification Statement by Water Supplier 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.

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|---|---|
| Executive Name (print): | Catherine Cerri |
| Executive Position: | General Manager |
| Signature: | |
| Date | 1/7/21 |