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: 7/22/2019

Water Supplier

Supplier Name:
Liberty Utilities- Apple Valley

Supplier Participants:
Adam Ambrose, Jeremy Caudell

Validator

Validator: Kevin Burgers,
Water Systems Optimization

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

Key Audit Metrics

Data Validity Score:	64	
ILI:	0.78	
Real Loss:	20.37	gal / conn / day
Apparent Loss:	5.65	gal / conn / day
Non-Revenue Water as Percent of Cost of Operating System:	1.7%	

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.

Water Supplier Name:	Liberty Utilities-Apple Valley
Water Supplier Public Water System ID:	3610003
Water Audit Period:	01/01/2018 – 12/31/2018

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.

For 2018 there were roundtable discussions with other departments to increase data accuracy and supporting docs. We continue working on a strategy to increase data validity, real loss and apparent loss.

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.

Executive Name (print):	Antonio D. Penna Jr.
Executive Position:	VP/ General Manager
Signature:	A. D. Penna Jr.
Date	August 12, 2019