CAVANAUGH
Stewardship Through Innovation

AWWA Water Audit Level 1 Validation Document

Validator Provided

Audit Information:

Utility: Livingston PWS ID: 2410004

System Type: Potable Audit Period: Calendar 2017

Utility Representation: Tony Avina (Lead Operator), Anthony Chavarria (PW Superintendent), Happy Bains (Senior Accountant)

Validation Date: 1/30/2019 Call Time: 11:30 am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 61 Data Validity Band (Level): Band III (51-70) ILI: 0.75 Real Loss: 8.02 (gal/conn/day)

Apparent Loss: 37.64 (gal/conn/day) Non-revenue water as percent of cost of operating system: 2.7%

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. ☒

Validator Information:

Water Audit Validator: Drew Blackwell Validator Qualifications: Contractor for California Water Loss TAP

2017 AWWA Water Audit Level 1 Validation

Water System Name: **Water System ID Number:** **Water Audit Period:**

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:

<<Information to be completed by Utility>>

1. We are in the process of doing meter change outs from manual reads to radio read meters and anything over 25 years old is also being replaced with radio read meters.
2. The City is also in the middle of multi-million main water line replacement and new service line replacements.
3. Our 1M Water Storage Tank is in the process of being renovated inside and outside.
4. The City is researching to try to go onto a fixed base radio read unit to read all meters throughout the City.

Utility Provided

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.

Anthony Chavarria	Public Works Director		2.26.19
Executive Name (Print)	Executive Position	Signature	Date