CAVANAUGH
Stewardship Through Innovation

2020 AWWA Water Audit Level 1 Validation – Review Document

Validator Provided

Audit Information:

Utility: Elsinore Valley Municipal Water District PWS ID: 3310012

System Type: Potable Audit Period: Calendar 2020

Utility Representation: Ryan Johnson (Field Services Manager)

Validation Date: 8/18/2021 Call Time: 10:00am 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: 0.87 Real Loss: 17.15 (gal/conn/day) Apparent Loss: 19.49 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 6.0%

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. ☒

Validator Information:

Water Audit Validator: Drew Blackwell Validator Qualifications: Certified Water Audit Validator CA-NV Section of the AWWA

2020 AWWA Water Audit Level 1 Validation

Water System Name: Elsinore Valley Municipal Water District **Water System ID Number:** CA3310012 **Water Audit Period:** Calendar Year 2020

Utility Provided

Water Audit & Water Loss Improvement Steps:

Steps taken in preceding 3 years to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

-Install testable meters downstream of import source meters, test to ensure accuracy of imported water totals. Meters to be tested annually by a third-party testing agency. Secured third-party testing contract for annual testing of District owned source meters. All District meters have been converted to an Advance Metering Infrastructure and are read hourly. Beta testing District Metered Areas.
-Purchased AMI capable Source meters to accurately record water produced.
-Adjusted meter testing policy to include random samples, age-based samples, and throughput samples to create an accurate representation of CMI.
-Acquired new AMI headend software capable of analyzing meter performance to aid in identifying underperforming meters.

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.

Executive Name (Print)	Executive Position	Signature	Date
Jase Warner	Director of Ops	Jase Warner	9/21/21