American Water Works Association
California-Nevada Section

Validator Provided

Certified Validation Report

Water Audit Level 1 Validation Document

Audit Information:

Water Supplier Name: San Gabriel Valley Water Company – LA Division PWS ID: CA1910039 and CA1910189

System Type: Potable Audit Period: Calendar 2020

Utility Representation: Stan Chen (consultant), Oscar Ramos

Validation Date: 10/28/2021 Call Time: 4:15 PM Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 65 Data Validity Band (Level): Level III (51-70)

ILI: 0.61 Real Loss: 9.83 (gal/conn/day) Apparent Loss: 6.83 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 2.3%

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: Christopher Hamilton Qualifications: Water Audit Validator Certificate issued by CA-NV AWWA

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Water Supplier Name: San Gabriel Valley Water Company – LA Division (LA Division)

Water Supplier ID Number: CA1910039, CA1910189

Water Audit Period: Calendar Year 2020

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:

The San Gabriel Valley Water Company-LA Division (LA Division) strives to continually improve the collection of data necessary to assess and reduce water loss. The LA Division has and continues to take proactive steps to reduce real losses within its water system. LA Division field personnel are trained to identify and confirm with management that water from fire hydrants is metered, permitted, or taken without knowledge or authorization. All LA Division customers with a water account have been identified and are billed accordingly. To improve meter accuracy, the LA Division replaces all meters within its distribution system up to 1-inch every 15 years. The LA Division replaces all meters from 1.5-inch up to 6-inch when they reach 6 million gallons of consumption. In addition, the LA Division tests all large meters 8-inch and above on an annual basis. To ensure meter reading is accurate and complete, the LA Division retains records for each meter owned and used, including identification number, serial number, type, size, dates of installation and removal, date of replacement, and test dates. Residential meters within the LA Division that are tested are tested at three or more test flows pursuant to AWWA standards (M6 or its successor).

Improvement steps LA Division implemented in CY 2017:

- ***LA Division installed additional meters to track facility consumption that previously was unmetered and unbilled. Now at most of these locations, LA Division has installed meters to record unbilled consumption on a monthly basis. This consumption includes, irrigation, domestic use, and operational use (such as water used for cleaning equipment, lubrication of pumping equipment, and material on site).***
- ***LA Division began the process of installing ultrasonic flow meters and PUC has authorized the conversion to Automatic Meter Reading (AMR) meters of up to 5 routes.***

Improvement steps LA Division implemented in CY 2018:

- ***LA Division installed approximately 764 new ultrasonic AMR meters on two meter routes.***

Improvement steps LA Division implemented in CY 2019:

- ***LA Division continued its meter replacement program and a total of 2,244 new ultrasonic AMR meters were installed.***
- ***LA Division installed the required 5 additional meters that are owned and operated by LA Division.***

Improvement steps LA Division implementation in CY 2020:

- ***LA Division continued its meter replacement program and a total of 3,919 new ultrasonic AMR meters.***

LA Division anticipated (planned) improvement steps for implementation during CY 2021:

- ***In 2021, LA Division plans to install 4,550 new ultrasonic AMR meters.***
- ***Starting in 2021, LA Division began utilizing two pressure monitoring devices at various locations to monitor low and high pressures to evaluate with its leak history.***

The LA Division has and continues to take proactive steps to reduce apparent losses within its water system. The LA Division currently employs technologies that quantify and help to reduce leaks, including leak noise correlators and loggers to pinpoint leaks and pressure management to systematically reduce leakage. The LA Division periodically reviews the age and condition of its piping infrastructure through inspection and maintenance records, and schedules replacement of facilities as documented into the Company's Master Plan reports. In addition, the LA Division periodically updates the hydraulic model of its distribution system to determine pipelines vulnerability to high water pressures and velocities. Vulnerable pipelines are scheduled for replacement in the LA Division's Capital Improvement Program. In addition, the LA Division employs numerous measures to identify, quantify, reduce or eliminate leaks such as but not limited to the following: comparing production with sales, visual inspection by field personnel, customer and outside agency notice and reporting, immediate response to leak repairs, and ongoing valve and fire hydrant maintenance.

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

MARTIN ZVIRBULIS	VICE PRESIDENT	Martin Zvirbulis/CK	10/29/21
Executive Name (Print)	Executive Position	Signature	Date