Certified Validation Report

Validator Provided

Part A: Provided by Validator

Audit Information:

Water Supplier Name: City of Patterson PWS ID: CA5010017

System Type: Potable Audit Period: CY 2019

Utility Representation: Maria Encinas & Mike Heard

Validation Date: 1/27/2021 Call Time: 10:30AM Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 58

ILI: 6.56 Real Loss: 193.005 MG Apparent Loss: 10.199 MG

Non-revenue water as percent of cost of operating system: 4.0%

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. ☑

If not, rejected recommendations are included here.

Validator Information:

Water Audit Validator: Chris Hewes Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA

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Certified Validation Report Template

Part B: Provided by Utility

Utility Provided

Water Supplier Name: City of Patterson **Water Supplier ID Number:** CA5010017 **Water Audit Period:** CY 2019

Water Audit & Water Loss Improvement Steps:

Utility to provide steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

- The city will provide well meter calibration reports for each well site on a yearly basis. This will confirm the accuracy of our well production meters.
- Conduct some level of proactive meter testing for a subset of the meter population.
- Finish installation of the SCADA historian driver to automatically record production readings.
- For 2020 and future audits, the city will look at larger-scale utility finance annual reports for all annual short- and long-term costs associated with operating the water utility within the City (including production, salary, debt financing, etc.). This will contain financing costs related to large capital projects spread out over a longer period of time without causing a huge spike in single-year operating costs.

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.

Executive Name (Print)	Executive Position	Signature	Date
Mike Willett	Public Works Director	Mikael Willett	2-16-2021

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