Certified Validation Report Template, Part A: Provided by Validator

WSO

Validator Provided

Audit Information

Water System Name: City of Delano

Public Water System Identification (PWSID)[1]: 1510005

[1]List only 1 PWSID, which should match the PWSID on the FWAS Instructions Tab. For Special cases where multiple water systems are connected with permanent two-way interties, list those additional PWSIDs in the **Notes** below and describe the water distribution system(s) configuration.

PWSID and Water System Configuration Notes (Provided to Validator by Water System):

Audit Period: FY2020-21

Validation Date: 10/14/2021

Sufficient Supporting Documents Provided: Yes

Water System Representatives

Joe Rojas, Allen Lutz, Jeff Zielsdorf, Armando Sánchez

Validation Findings & Confirmation Statement

Key Audit Metrics:

Data Validity Score: 61 Data Validity Band (Level): Band III (51-70)

Non-revenue water as percent of cost of operating system: 3.9%

Real Loss: 106.24 gal / conn / day

Apparent Loss: 9.02 gal / conn / day

ILI: 8.21

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: Maher Lugo Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA

Certified Validation Report Template, Part B: Provided by Utility

Utility Provided

Water System Name: **City of Delano**

Public Water System Identification (PWSID)[2]: 1510005

[2]List only 1 PWSID, which should match the PWSID on the FWAS Instructions Tab. For Special cases where multiple water systems are connected with permanent two-way interties, those additional PWSIDs should have been listed in the Notes section on Page 1 by the Validator.

Water Audit & Water Loss Improvement Steps:

1. Steps Taken: *Water System to identify steps taken* ***in the preceding 3 years*** *to increase data validity, reduce real loss, and reduce apparent loss as informed by the annual validated water audit:*

Volume from Own Sources Master Meter and Supply Error Adjustment: Weighted average from accuracy test result was applied to the production master meters to compensate for the error adjustment.

Billed Unmetered Authorized Consumption: 14.8% (1,291) of customers are unmetered, mostly single family residential. Most commercial-type clients are metered. Extrapolation from like use data on metered connections.

Unbilled Metered Authorized Consumption: Filter backwash and hydrant flow testing volumes were deducted from the original data. Direct from meter readings. Meters are read before and after each operational event using a portable meter. Portable meter accuracy test result will be applied in the future to reflect volumes with error adjustment.

2. Planned Steps (OPTIONAL): If your audit reflects *negative real losses or the cost of non-revenue water is greater than 100% of the operating costs (issues for which your audit will not meet code requirements), you will be asked what steps you are planning in the coming year to address these issues. If you already know what steps you plan to take, you may list them here. If not, please prepare a response within 90 days (23 CCR Section 638.6[a]).*

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3. 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
Roman Dowling	City Engineer/Public Works Director		11/4/2020