CA-NV AWWA Water Loss Technical Assistance Program

Wave 4 Water Audit Level 1 Validation Document

Validator Provided

Audit Information:

Utility: Pasadena Water and Power Department PWS ID: CA1910124

System Type: Potable Audit Period: Calendar 2016

Utility Representation: Brad Boman (Engineering Manager), Natalie Ouwersloot (Principal Engineer), Sandra Andrade-Hernandez (Assistant Engineer)

Validation Date: 6/29/2017 Call Time: 9am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 64 Data Validity Band (Level): Band III (51-70)

ILI: 2.36 Real Loss: 39.33 (gal/conn/day) Apparent Loss: 9.04 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 4.6%

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: William Elman / Carolyn Prescott (support) Validator Qualifications: Contractor for CA-NV AWWA Water Loss TAP

American Water Works Association
California-Nevada Section

CA-NV AWWA Water Loss Technical Assistance Program

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Water System Name: Pasadena Water and Power Department **Water System ID Number: CA1910124** **Water Audit Period:** Calendar 2016

Water Audit & Water Loss Improvement Steps:

Pasadena Water and Power Department ("PWP") conducted this water loss audit for calendar year 2016. Per Senate Bill 555, all urban water suppliers must submit an annual validated water loss audit. PWP can improve the validity score by performing meter testing. Improvements for reducing water losses can be made through detailed tracking of water uses and making infrastructure improvements.

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.

ERIC R. KLINKNER	DEPUTY GENERAL MANAGER		9-27-2017
Executive Name (Print)	Executive Position	Signature	Date

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