American Water Works Association
California-Nevada Section

CA-NV AWWA Water Loss Technical Assistance Program

Wave 4 Water Audit Level 1 Validation Document

Utility Provided

Water System Name: City of Newport Beach **Water System ID Number:** 3010023 **Water Audit Period:** Calendar 2016

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:

<<Information to be completed by Utility>> The City of Newport Beach participated in all Waves of the TAP Program. In addition, the City of Newport Beach participated in the MWDOC Water Loss Control Program. Through the MWDOC program, NP performed level 2 validation of the billing data. During 2016, NB also performed some customer meter accuracy testing.

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.

Steffen Catron	Utilities Manager		9/27/2017
Executive Name (Print)	Executive Position	Signature	Date

WSO CAVANAUGH Stewardship Through Innovation

American Water Works Association
California-Nevada Section

CA-NV AWWA Water Loss Technical Assistance Program

Wave 4 Water Audit Level 1 Validation Document

Validator Provided

Audit Information:

Utility: Newport Beach PWS ID: 3010023

System Type: Potable Audit Period: Calendar 2016

Utility Representation: Michael Curry, Steffen Catron

Validation Date: 8/1/2017 Call Time: 9:00am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 62 Data Validity Band (Level): Band III (51-70)

ILI: 1.26 Real Loss: 20.8 (gal/conn/day) Apparent Loss: 6.2 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 5.3%

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: Steve Cavanaugh / Jeff Cappadona (support) Validator Qualifications: Contractor for CA-NV AWWA Water Loss TAP

WSO CAVANAUGH Stewardship Through Innovation