Level 1 Validation Certificate

WSO

This document verifies that the Level 1 Validation process was completed. The session details and audit review outcomes are included here.

This certificate is required for submission – alongside the Level 1 validated water audit software file – to the California Department of Water Resources.

Call Date: 8/14/2019

Water Supplier

Supplier Name:
City of Newport Beach

Supplier Participants:
Michael Curry, Utilities Supervisor

Validator

Validator: Reinhard Sturm,
Water Systems Optimization, Inc.

Validator Qualifications: Water Audit Validator Certificate from the AWWA California Nevada Section

Key Audit Metrics

Data Validity Score:	64	
ILI:	1.72	
Real Loss:	28.27	gal / conn / day
Apparent Loss:	7.07	gal / conn / day
Non-Revenue Water as Percent of Cost of Operating System:	5.7%	

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. ☒

Level 1 Validation – Water Supplier Confirmation

This document confirms participation in and endorsement of the Level 1 Validation as completed.

This acknowledgement is required for submission – alongside your Level 1 validated water audit software file – to the California Department of Water Resources.

Water Supplier Name:	City of Newport Beach
Water Supplier Public Water System ID:	CA3010023
Water Audit Period:	01/01/2018 – 12/31/2018

Water Audit & Water Loss Improvement Steps

Steps taken in the audit period timeframe to increase data source accuracy, reduce real losses, and/or reduce apparent losses, as informed by the water audit.

The City of Newport Beach is in the middle of a "Proof of Performance" (POP) phase of an AMI meter project with Mueller Inc. The POP consists of the replacement of 250 old direct read meters with new AMI meters. The anticipated completion date of the POP project is November 2019. At that point, we anticipate moving into full implementation which will be the replacement of 25,000 of our 26,500 direct read meters with the new AMI meters. Valor Water Analytics has equated the City has 210 acre feet (AF) of water per year not metered because of old meters that no longer register during low flows. With the replacement of these meters that water will now be registered which in turn will decrease the City's real losses.

Certification Statement by Water Supplier 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.

Executive Name (print):	Steffen Catron
Executive Position:	Utilities Manager
Signature:	
Date	August 21, 2019