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: 8/30/2018

Water Supplier

Supplier Name:	City of Manhattan Beach
Supplier Participants:	Shawn Igoe, Mark Wood

Validator

Validator:	Kim Manago, Water Systems Optimization
Validator Qualifications:	Water Audit Validator Certificate from the AWWA California Nevada Section

Key Audit Metrics

Data Validity Score:	65	
ILI:	0.2	
Real Loss:	2.2	gal / conn / day
Apparent Loss:	7.9	gal / conn / day
Non-Revenue Water as Percent of Cost of Operating System:	2.7%	

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. ☒

If not, rejected recommendations are included here.

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 Manhattan Beach
Water Supplier Public Water System ID:	1910083
Water Audit Period:	July 1, 2017 thru June 30, 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 has began to pilot AMI meters and hopes to have the deployment start in 2019.

Due to our 2 year budget, we were not able to budget for additional measures but as part of the preparation during last FY, we did add the following items to our new 2 year budget. Random meter testing was budgeted for and will be conducted for the 2018/19 FY. Well production meter testing has also been budgeted for the the 2018/19 FY.

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):	Shawn Igoe
Executive Position:	Utilities Division Manager
Signature:	
Date	September 27, 2018