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: 8/7/2018

Water Supplier

Supplier Name: City of Seal Beach

Supplier Participants:

David Spitz, Associate Public Works Engineer

Darrick Escobedo, Water Services Supervisor

Grant Tavasci, Executive Assistant (GIS)

Michelle Marquez, Senior Account Technician

Taylor Juarez, Water Billing

Validator

Validator:	Reinhard Sturm, Water Systems Optimization
Validator Qualifications:	Water Audit Validator Certificate from the AWWA California Nevada Section

Key Audit Metrics

Data Validity Score:	58	
ILI:	2.1	
Real Loss:	0.5	gal / conn / day
Apparent Loss:	3.9	gal / conn / day

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. ☒

Non-Revenue Water as Percent of Cost of Operating System:	5%

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:	Seal Beach
Water Supplier Public Water System ID:	3020041
Water Audit Period:	Calendar Year 2017

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 continued with more aggressive testing of smaller meters and changing out meters that do not test well or that are deemed broken or damaged. This has led to a decrease in both real and apparent water losses and a decrease in non-revenue water as a percent of cost of our operating system. We will look to increase either the accuracy, frequency or reliability of our larger meter testing in the upcoming year.

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):	Steve Myrter, P.E.
Executive Position:	Director of Public Works
Signature:	
Date	8/15/18