# 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: 10/22/2020

## Water Supplier

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| Supplier Name: | City of Santa Ana |
| Supplier Participants: | Leif Lovegren |

## Validator

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| Validator: | Reinhard Sturm<br>Water Systems Optimization |
| Validator Qualifications: | Water Audit Validator Certificate from the AWWA California Nevada Section |

## Key Audit Metrics

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| Data Validity Score: | 68 | |
| ILI: | 1.27 | |
| Real Loss: | 19.59 | gal / conn / day |
| Apparent Loss: | 16.53 | gal / conn / day |
| Non-Revenue Water as Percent of Cost of Operating System: | 3.8% | |

## 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.*

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| Water Supplier Name: | City of Santa Ana |
| Water Supplier Public Water System ID: | 3010038 |
| Water Audit Period: | FY 2019-2020 |

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.*

Click or tap here to enter text.

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.

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| Executive Name (print): | Cesar Barrera, P.E. |
| Executive Position: | Water Resources Manager |
| Signature: | |
| Date | 11/23/2020 |