



Level 1 Validation Form

WATER SYSTEM NAME: _____ DATE: _____

Instructions: this form is to be used by Certified Validators to document their work. Once completed, a utility should maintain a copy for their records. This form is not required to be submitted to the State.

Part I. Water Supplied Pre-Interview Notes:	
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AWWA Water Audit Input	Input Adjusted (Y/N)	Final Date Validity Grade ("DVG")	Confirmation of Input Derivation	Confirmation of DVG Assignment
1) Volume from Own Sources ("VOS")			Supply meter profile: VOS input data source: Comments: Confirmed input value:	Percent of VOS metered: Signal calibration frequency: Volumetric testing frequency: Volumetric testing method: Percent of VOS tested and/or calibrated: Comments: Confirmed DVG:

VALIDATOR NAME: _____

PHONE: _____ EMAIL: _____



Level 1 Validation Form

WATER SYSTEM NAME: _____ DATE: _____

Part I. Water Supplied Continued

AWWA Water Audit Input	Input Adjusted (Y/N)	Final DVG	Confirmation of Input Derivation	Confirmation of DVG Assignment
2) Volume from Own Sources Master Meter Error Adjustment ("MMEA")			Adjustment basis: Net storage change included: Comments: Confirmed input value:	Supply meter read frequency: Supply meter read method: Frequency of data review: Storage level monitoring frequency: Comments: Confirmed DVG:
3) Water Imported ("WI")			Import meter profile: WI data source: Comments: Confirmed input value:	Percent of WI metered: Signal calibration frequency: Volumetric testing frequency: Volumetric testing method: Percent of WI tested and/or calibrated: Comments: Confirmed DVG:

VALIDATOR NAME: _____

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Level 1 Validation Form

WATER SYSTEM NAME: _____ DATE: _____

Part I. Water Supplied Continued

AWWA Water Audit Input	Input Adjusted (Y/N)	Final DVG	Confirmation of Input Derivation	Confirmation of DVG Assignment
4) Water Imported MMEA			Adjustment basis: Comments: Confirmed input value:	Import meter read frequency: Import meter read method: Frequency of data review: Comments: Confirmed DVG:
5) Water Exported ("WE")			Export meter profile: WE data source: Comments: Confirmed input value:	Percent of WE metered: Signal calibration frequency: Volumetric testing frequency: Volumetric testing method: Percent of WE tested and/or calibrated: Comments: Confirmed DVG:

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Level 1 Validation Form

WATER SYSTEM NAME: _____ DATE: _____

Part I. Water Supplied Continued

AWWA Water Audit Input	Input Adjusted (Y/N)	Final DVG	Confirmation of Input Derivation	Confirmation of DVG Assignment
6) Water Exported MMEA			Adjustment basis: Comments: Confirmed input value:	Export water meter read frequency: Export meter read method: Frequency of data review: Comments: Confirmed DVG:

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PHONE: _____ EMAIL: _____



Level 1 Validation Form

WATER SYSTEM NAME: _____ DATE: _____

Part II. Authorized Consumption Pre-Interview Notes:	
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AWWA Water Audit Input	Input Adjusted (Y/N)	Final DVG	Confirmation of Input Derivation	Confirmation of DVG Assignment
7) Billed Metered Authorized Consumption ("BMAC")			Customer meters & reads profile: Age profile: Read system: Read frequency: Billing data pro-rated? Comments: Confirmed input value:	Percent of customers metered: Small meter testing policy: # of small meters/year: Large meter testing policy: # of large meters tested/year: Meters replaced/year: Billing data auditing practice: Comments: Confirmed DVG:

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Level 1 Validation Form

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Part II. Authorized Consumption Continued

AWWA Water Audit Input	Input Adjusted (Y/N)	Final DVG	Confirmation of Input Derivation	Confirmation of DVG Assignment
8) Billed Unmetered Authorized Consumption ("BUAC")			Billed unmetered profile: Input derivation: Comments: Confirmed input value:	Policy for metering exemption: Input derivation: Comments: Confirmed DVG:
9) Unbilled metered Authorized Consumption ("UMAC")			Unbilled metered profile: Input derivation: Comments: Confirmed input value:	Policy for metering exemption: Comments: Confirmed DVG:
10) Unbilled unmetered Authorized Consumption ("UUAC")			Unbilled unmetered profile: Input derivation: Comments: Confirmed input value:	Input derivation: Default of adjusted default applied: Completeness of documentation: Comments: Confirmed DVG:

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Part III. Water Losses	
Pre-Interview Notes:	

AWWA Water Audit Input	Input Adjusted (Y/N)	Final DVG	Confirmation of Input Derivation	Confirmation of DVG Assignment
11) Unauthorized Consumption ("UC")			Default applied? Input derivation if customized: Comments: Confirmed input value:	Instances and extent of UC documented: Comments: Confirmed DVG:
12) Customer Metering inaccuracies ("CMI")			Input derivation: Comments: Confirmed input value:	Characteristics of meter testing: Characterizations of meter replacement: Comments: Confirmed DVG:
13) Systematic data handling errors ("SDHE")			Input derivation: Comments: Confirmed input value:	If custom estimate provided: Characteristic of read collection and billing process: Characteristic of billing process and billing data auditing: Confirmed DVG:

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<p>Part IV. System Data Pre-Interview Notes:</p>	
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AWWA Water Audit Input	Input Adjusted (Y/N)	Final DVG	Confirmation of Input Derivation	Confirmation of DVG Assignment
14) Length of Mains			<p>Input derivation:</p> <p>Hydrant lateral length included:</p> <p>Comments:</p> <p>Confirmed input value:</p>	<p>Mapping format:</p> <p>Asset Management database:</p> <p>Map updates & field validation:</p> <p>Comments:</p> <p>Confirmed DVG:</p>
15) Number of Active and Inactive Service Connections			<p>Input derivation:</p> <p>Basis for database query:</p> <p>Comments:</p> <p>Confirmed input value:</p>	<p>GIS updated & field validation:</p> <p>Estimated error of total count within:</p> <p>Comments:</p> <p>Confirmed DVG:</p>

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Part IV. System Data Continued

AWWA Water Audit Input	Input Adjusted (Y/N)	Final DVG	Confirmation of Input Derivation	Confirmation of DVG Assignment
16) Average Length of Service Connection			<p>Are customer meters at curb stop/property line?</p> <p>Where are customer meters installed if not at the curb stop?</p> <p>Customer service line derivation:</p> <p>Comments:</p> <p>Confirmed input value:</p>	<p>Comments:</p> <p>Confirmed DVG:</p>
17) Average Operating Pressure			<p>Number of zones, general setup:</p> <p>Typical pressure range:</p> <p>Input derivation:</p> <p>Comments:</p> <p>Confirmed input value:</p>	<p>Extent of static pressure data collection</p> <p>Characterization of real-time pressure data collection:</p> <p>Hydraulic model in place?</p> <p>Calibrated?</p> <p>Age of model:</p> <p>Comments:</p> <p>Confirmed DVG:</p>

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Part V. Cost Data Pre-Interview Notes:	
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AWWA Water Audit Input	Input Adjusted (Y/N)	Final DVG	Confirmation of Input Derivation	Confirmation of DVG Assignment
18) Total annual operating cost ("TOC")			Input Derivation: Comments: Confirmed input value:	Frequency of internal auditing: Frequency of third-party CPA auditing: Comments: Confirmed DVG:
19) Customer retail unit cost ("CRUC")			Input derivation: Sewer charges volumetric? Sewer charges included? Comments: Confirmed input value:	Characterization of calculation: Comments: Confirmed DVG:

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Part V. Cost Data Continued

AWWA Water Audit Input	Input Adjusted (Y/N)	Final DVG	Confirmation of Input Derivation	Confirmation of DVG Assignment
20) Variable production cost ("VPC")			Supply profile: Direct variable costs included: Secondary costs included: Comments: Confirmed input value:	Characterization of calculation: Comments: Confirmed DVG:

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Part VI. Summary

Final Call Notes:

Total Data Validity Score	Infrastructure Leakage Index (ILI)	Real Losses (gal/conn/day)

Condition of Infrastructure & Description of Water Loss Control Activity

Pipe network age range:

Main breaks/year:

Service breaks/year:

Main and service line replacement program (historical & current):

No current proactive leakage management:

Meter Replacements, smaller meters:

Meter Replacement, larger meters:

GIS and asset management:

Old cast iron main replacements:

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