APPENDIX F: AWWA Water Audits 2015 - 2019

A		Water Audit S		American Wa	WAS v5.0 ter Works Association.	
	Repo	orting Workshee	<u>et</u>		1, All Rights Reserved.	
Click to access definition Click to add a comment Water Audit Report for: Reporting Year:	City fo Santa 2015	Cruz Water Departme 1/2015 - 12/2015	ent			
Please enter data in the white cells below. Where available, metered values shi input data by grading each component (n/a or 1-10) using the drop-down list to					of the	
All volui	nes to be ente	ered as: MILLION GAL	LONS (US) PER YEAR			
To select the correct data grading for each inpu the utility meets or exceeds all criteria t				Mantan Matan and Committee Force Addition		
WATER SUPPLIED	· ·	•	in column 'E' and 'J'	Master Meter and Supply Error Adju> Pcnt: Value:	ustments	
Volume from own sources:		2,446.010		7 0 0 0.000	MG/Yr	
Water imported:	+ ?	0.000	MG/Yr + ?	00	MG/Yr	
Water exported:	+ ?	0.000	MG/Yr + ?	Enter negative % or value for under	MG/Yr	
WATER SUPPLIED:		2,446.010	MG/Yr	Enter positive % or value for over-re	•	
AUTHORIZED CONSUMPTION						
Billed metered:	+ ? 7	2,226.580	MG/Yr	Click here: for help using o		
Billed unmetered:			MG/Yr	buttons below		
Unbilled metered: Unbilled unmetered:			MG/Yr MG/Yr	Pcnt: Value: 15.360	MG/Yr	
Official diffretered.		15.500	IVIG/TI	<u> </u>	IVIG/TI	
AUTHORIZED CONSUMPTION:	?	2,247.670	MG/Yr	Use buttons to percentage of supplied	water	
WATER LOOSES (Water Consulted - Authorities d Consumption)		400.040		<u>OR</u> value		
WATER LOSSES (Water Supplied - Authorized Consumption)		198.340	MG/YF	No.		
Apparent Losses Unauthorized consumption:	+ ?	6 115	MG/Yr	Pcnt:	MG/Yr	
Default option selected for unauthorized con				0.2070		
Customer metering inaccuracies:		41.740	l	○ ● 41.740	MG/Yr	
Systematic data handling errors:		0.001	MG/Yr	0.001	MG/Yr	
Apparent Losses:	?	47.856	MG/Yr			
Real Losses (Current Annual Real Losses or CARL) Real Losses = Water Losses - Apparent Losses:	?	150.484	MG/Vr			
WATER LOSSES:		198.340				
WATER LOSSES.		130.340	MG/TI			
NON-REVENUE WATER NON-REVENUE WATER:	?	218.940	MG/Vr			
= Water Losses + Unbilled Metered + Unbilled Unmetered		210.540	MO/11			
SYSTEM DATA						
Length of mains:	+ ? 9	271.8	miles			
Number of <u>active AND inactive</u> service connections: Service connection density:	+ ? 8	25,038 92	conn./mile main			
Are customer meters typically located at the curbstop or property line?		Yes	(langth of sarvice li	ne, beyond the property		
Average length of customer service line:	+ ?		boundary, that is th	ne, <u>beyond</u> the property ne responsibility of the utility)		
Average length of customer service line has been		d a data grading score 90.8				
Average operating pressure:	+ / 0	90.0	μsi			
COST DATA						
Total annual cost of operating water system:	+ ? 10	\$24,731,254	\$/Year			
Customer retail unit cost (applied to Apparent Losses):			\$/100 cubic feet (ccf)			
Variable production cost (applied to Real Losses):	+ ? 7	\$599.00	\$/Million gallons Use	Customer Retail Unit Cost to value real losses		
WATER AUDIT DATA VALIDITY SCORE:						
*** YOUR SCORE IS: 75 out of 100 ***						
				tota Validity Coora		
A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score PRIORITY AREAS FOR ATTENTION:						
Based on the information provided, audit accuracy can be improved by address	sing the following	a components.				
1: Volume from own sources	g the following	g components.				
2: Customer metering inaccuracies						
	l I					
3: Billed metered	I					

F F	AWWA Free Water Audit Reporting Worksh		WAS v5.0 American Water Works Association. Copyright © 2014, All Rights Reserved.				
	r: City of Santa Cruz Water Depar	ment	Copping to 2011, and against addition				
	Click to add a comment Reporting Year: 2016 1/2016 - 12/2016 Places enter data in the white cells below. Where explicitly an about the control values are unavailable places estimate a value. Indicate your confidence in the accuracy of the						
Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades All volumes to be entered as: MILLION GALLONS (US) PER YEAR							
To select the correct data grading for each inp the utility meets or exceeds <u>all</u> criteria			Master Meter and Supply Error Adjustments				
WATER SUPPLIED		ng in column 'E' and 'J'					
Volume from own sources Water imported		17 MG/Yr + 17 MG/Yr + 17	7 O O MG/Yr MG/Yr MG/Yr				
Water exported	d: + ?	MG/Yr + ?	MG/Yr				
WATER SUPPLIED): 2,557.1	17 MG/Yr	Enter negative % or value for under-registration Enter positive % or value for over-registration				
AUTHORIZED CONSUMPTION			Click here:				
Billed metered Billed unmetered			for help using option buttons below				
Unbilled metered		16 MG/Yr	Pcnt: Value:				
Unbilled unmetered		95 MG/Yr	O ● 11.295 MG/Yr				
AUTHORIZED CONSUMPTION	1: 2,330.2	MG/Yr	Use buttons to select percentage of water supplied OR				
WATER LOSSES (Water Supplied - Authorized Consumption)	226.8	25 MG/Yr	value ;				
Apparent Losses		INO/11	Pcnt: ▼ Value:				
Unauthorized consumption	n: + ? 6.3	93 MG/Yr	0.25%				
Default option selected for unauthorized con	nsumption - a grading of 5 is app	ed but not displayed					
Customer metering inaccuracies Systematic data handling errors		<mark>45</mark> MG/Yr 81 MG/Yr	0.25% © C MG/Yr				
Default option selected for Systematic da							
Apparent Losses	s: ? 51.2	MG/Yr					
Real Losses (Current Annual Real Losses or CARL)							
Real Losses = Water Losses - Apparent Losses	s: ? 175.6	MG/Yr					
WATER LOSSES	S: 226.8	MG/Yr					
NON-REVENUE WATER NON-REVENUE WATER	? 253. 6	36 MG/Yr	_				
= Water Losses + Unbilled Metered + Unbilled Unmetered							
SYSTEM DATA		_					
Length of mains Number of <u>active AND inactive</u> service connections Service connection density	s: + ? 7 24,2						
Are customer meters typically located at the curbstop or property line	?	es (length of service li	ine, <u>beyond</u> the property				
Average length of customer service line	9: + ?	boundary, that is the	the responsibility of the utility)				
Average length of customer service line has been Average operating pressure		.0 psi					
COST DATA		_					
Total annual cost of operating water system Customer retail unit cost (applied to Apparent Losses)							
Variable production cost (applied to Apparent Cosses)		94 \$\ \\$/100 cubic feet (ccf) 41 \$\ \\$/Million gallons Use	Customer Retail Unit Cost to value real losses				
WATER AUDIT DATA VALIDITY SCORE:							
*** YOUR SCORE IS: 75 out of 100 ***							
A weighted scale for the components of consu	umption and water loss is included in th	calculation of the Water Audit D	Data Validity Score				
PRIORITY AREAS FOR ATTENTION:							
Based on the information provided, audit accuracy can be improved by address	ssing the following components:						
1: Volume from own sources							
2: Variable production cost (applied to Real Losses)							
3: Billed metered							

	AWWA Free Water Audit Software: <u>Reporting Worksheet</u>						S v5.0 s Association hts Reserved	
Copyright © 2014, All Rights Reserved Copyright © 2014, All Rights Reserved Copyright © 2014, All Rights Reserved Click to access definition Click to add a comment Reporting YorkSiteet Copyright © 2014, All Rights Reserved 1								
Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades								
	All volur	nes to be ente	red as: MILLION GAL	LONS (US) PER YEAR			_	
To sele	ct the correct data grading for each input the utility meets or exceeds all criteria f				Master Meter and C	upply From Adjustmen	to.	
WATER SUPPLIED	the utility frieets of exceeds <u>all</u> criteria i	•	· ·	in column 'E' and 'J'		upply Error Adjustmen Value:	ıs	
WATER SUPPLIED	Volume from own sources:		2,653.930		8 0	© 0.000	MG/Yr	
	Water imported:		3.986	MG/Yr + ?	8 0	0.000	MG/Yr	
	Water exported:	+ ?		MG/Yr + ?	<u> </u>	0	MG/Yr	
	WATER SUPPLIED:		2,657.916	MG/Yr	· ·	value for under-registi value for over-registrat		
AUTHORIZED CONSUMPTION						Click here:	_	
	Billed metered:	+ ? 7	2,412.263	MG/Yr		for help using option		
	Billed unmetered:	+ ? 10	0.000	MG/Yr	Dant	buttons below		
	Unbilled metered: Unbilled unmetered:		9.585 16.459	MG/Yr MG/Yr	Pcnt:	Value: 16.459	MG/Yr	
	Offilied driffletered.		10.439	IVIG/TI	<u> </u>	<u>©</u> 10.459	IVIG/TI	
	AUTHORIZED CONSUMPTION:	?	2,438.307	MG/Yr	p	Use buttons to select ercentage of water suppl	ied	
WATER LOSSES (Water Sunn	lied - Authorized Consumption)		219.609	MG/Vr	_	value		
`	ned - Authorized Consumption)		219.009	IVIG/TI	Dant	Value		
Apparent Losses	Unauthorized consumption:	+ ?	6 645	MG/Yr	Pcnt:	▼ Value:	MG/Yr	
Enter a positive va	lue, otherwise a default percentage of						IVIG/11	
u pooi	Customer metering inaccuracies:		52.109		Ω	© 52.109	MG/Yr	
	Systematic data handling errors:			MG/Yr	0.25%	C 32.109	MG/Yr	
Defa	ult option selected for Systematic dat	a handling err	ors - a grading of 5 is	applied but not displayed	d		-	
	Apparent Losses:	?	64.784	MG/Yr				
Real Losses (Current Annual Real Losses or CARL) Real Losses = Water Losses - Apparent Losses: 7 154.825 MG/Yr								
<u> </u>	WATER LOSSES:		219.609	MG/Yr				
NON-REVENUE WATER							_	
	NON-REVENUE WATER:	?	245.653	MG/Yr				
= Water Losses + Unbilled Metered	+ Unbilled Unmetered						-	
SYSTEM DATA Number of g	Length of mains: active AND inactive service connections: Service connection density:		271.0 24,656 91	miles				
	•		<u> </u>	osini,,milo main				
	located at the curbstop or property line?	± 2	Yes		ne, <u>beyond</u> the property			
	Average length of customer service line: the of customer service line has been service.		l a data grading score		e responsibility of the util	ity)		
,g	Average operating pressure:		91.0					
COST DATA							-	
Tota	I annual cost of operating water system:	+ ? 10	\$24,242,500	\$/Year				
Customer retai	I unit cost (applied to Apparent Losses):	+ ? 10	\$9.67	\$/100 cubic feet (ccf)				
Variable p	roduction cost (applied to Real Losses):	+ ? 5	\$570.19	\$/Million gallons Use C	Customer Retail Unit Cost to	value real losses		
WATER AUDIT DATA VALIDITY SCORE:								
	*	** YOUR SCOP	RE IS: 77 out of 100 **	*				
Av	veighted scale for the components of consun	nption and water	loss is included in the ca	Iculation of the Water Audit Da	ata Validity Score			
PRIORITY AREAS FOR ATTENT	· ·							
·		sing the following	components.					
Based on the information provided, audit accuracy can be improved by addressing the following components: 1: Volume from own sources								
2: Variable production cost (applied to Real Losses)								
3: Billed metered								

AWWA F	WAS v5.0 American Water Works Association Copyright © 2014, All Rights Reserved						
Click to access definition Water Audit Report for: City of Santa Cruz Water Department (4410010) Click to add a comment Reporting Year: 2018 1/2018 - 12/2018							
Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades							
	entered as: MILLION GAL	LONS (US) PER YEAR					
To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds <u>all</u> criteria for that grade and all grades below it. Master Meter and Supply Error Adjustments							
WATER SUPPLIED		in column 'E' and 'J'	Toric. Value.				
Volume from own sources: + ? Water imported: + ?	5 2,647.653 5	MG/Yr MG/Yr +	7 9 MG/Yr 2 MG/Yr				
Water exported: + ?	5 8.982	MG/Yr +	2 9 MG/Yr				
WATER SUPPLIED:	2,638.671	MG/Yr	Enter negative % or value for under-registration Enter positive % or value for over-registration				
AUTHORIZED CONSUMPTION	2,000.071	INO/11	Click here:				
Billed metered: + ?	7 2,369.474	MG/Yr	for help using option				
Billed unmetered: + ?		MG/Yr	buttons below				
Unbilled unmetered: + ?	9 25.450 9 11.101		Pont: Value:				
Unbilled unmetered: 📩 🛂	9 11.101	MG/Yr	11.101 MG/Yr				
AUTHORIZED CONSUMPTION: 2	2,406.375	MG/Yr	i Use buttons to select percentage of water supplied				
			<u>OR</u>				
WATER LOSSES (Water Supplied - Authorized Consumption)	232.296	MG/Yr	value				
Apparent Losses Unauthorized consumption: ?	6.597	MG/Yr	Pcnt:				
Default option selected for unauthorized consumption							
Customer metering inaccuracies: + ?			54.104 MG/Yr				
Systematic data handling errors: •		MG/Yr	0.25%				
Apparent Losses:	66.624		_				
Real Losses (Current Annual Real Losses or CARL)							
Real Losses = Water Losses - Apparent Losses:	465 670						
	165.672	MG/Yr					
WATER LOSSES:	232.296						
NON-REVENUE WATER NON-REVENUE WATER:		MG/Yr					
NON-REVENUE WATER NON-REVENUE WATER: = Water Losses + Unbilled Metered + Unbilled Unmetered	232.296	MG/Yr					
NON-REVENUE WATER NON-REVENUE WATER:	232.296	MG/Yr					
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains: + ? Number of active AND inactive service connections: + ?	232.296 268.847 9 270.7 7 24,671	MG/Yr MG/Yr miles					
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains: + ? Number of active AND inactive service connections: + ? Service connection density: ?	232.296 268.847 9 270.7 7 24,671 91	MG/Yr MG/Yr miles conn./mile main					
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains:	232.296 268.847 9 270.7 7 24,671	MG/Yr MG/Yr miles conn./mile main (length of service	line, <u>beyond</u> the property				
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains: + ? Number of active AND inactive service connections: + ? Service connection density: ?	232.296 268.847 9 270.7 7 24,671 91 Yes	MG/Yr MG/Yr miles conn./mile main (length of service boundary, that is the service boundary).	line, <u>beyond</u> the property he responsibility of the utility)				
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains:	232.296 268.847 9 270.7 7 24,671 91 Yes p and a data grading score	MG/Yr MG/Yr miles conn./mile main (length of service boundary, that is to be of 10 has been applied					
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains:	232.296 268.847 9 270.7 7 24,671 91 Yes p and a data grading score	MG/Yr MG/Yr miles conn./mile main (length of service boundary, that is to be of 10 has been applied					
NON-REVENUE WATER SYSTEM DATA Length of mains: Number of active AND inactive service connections: Service connection density: Are customer meters typically located at the curbstop or property line? Average length of customer service line: Average length of customer service line has been set to zero Average operating pressure: COST DATA	232.296 268.847 9 270.7 7 24,671 91 Yes p and a data grading score 5 91.3	MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi					
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains: + ? Number of active AND inactive service connections: + ? Service connection density: ? Are customer meters typically located at the curbstop or property line? Average length of customer service line: + ? Average length of customer service line has been set to zero Average operating pressure: + ?	232.296 268.847 9 270.7 7 24,671 91 Yes p and a data grading score 5 91.3	MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi					
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains: + ? Number of active AND inactive service connections: + ? Service connection density: ? Are customer meters typically located at the curbstop or property line? Average length of customer service line: + ? Average length of customer service line has been set to zero Average operating pressure: + ? COST DATA Total annual cost of operating water system: + ?	232.296 268.847 9 270.7 7 24,671 91 Yes p and a data grading score 5 91.3	MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi \$/Year \$/100 cubic feet (ccf)					
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains:	232.296 268.847 9 270.7 7 24,671 91 Yes p and a data grading score 5 91.3	MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi \$/Year \$/100 cubic feet (ccf)	he responsibility of the utility)				
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains:	232.296 268.847 9 270.7 7 24,671 91 Yes p and a data grading score 5 91.3	MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi \$/Year \$/100 cubic feet (ccf) \$/Million gallons	he responsibility of the utility)				
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains:	232.296 268.847 9 270.7 7 24,671 91 Yes p and a data grading score 5 91.3 10 \$29,221,709 10 \$10.88 5 \$506.50	MG/Yr MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi \$/Year \$/100 cubic feet (ccf) \$/Million gallons	he responsibility of the utility) se Customer Retail Unit Cost to value real losses				
NON-REVENUE WATER Water Losses + Unbilled Metered + Unbilled Unmetered Length of mains: + ? Number of active AND inactive service connections: Service connection density: Are customer meters typically located at the curbstop or property line? Average length of customer service line: + ? Average length of customer service line has been set to zero Average operating pressure: + ? COST DATA Total annual cost of operating water system: + ? Customer retail unit cost (applied to Apparent Losses): + ? Water Audit Data Validity Score:	232.296 268.847 9 270.7 7 24,671 91 Yes p and a data grading score 5 91.3 10 \$29,221,709 10 \$10.88 5 \$506.50	MG/Yr MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi \$/Year \$/100 cubic feet (ccf) \$/Million gallons	he responsibility of the utility) se Customer Retail Unit Cost to value real losses				
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains:	9 270.7 7 24,671 91 Yes 0 and a data grading score 5 91.3 10 \$29,221,709 10 \$10.88 5 \$506.50 SCORE IS: 68 out of 100 *** water loss is included in the care	MG/Yr MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi \$/Year \$/100 cubic feet (ccf) \$/Million gallons	he responsibility of the utility) se Customer Retail Unit Cost to value real losses				
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains:	9 270.7 7 24,671 91 Yes 0 and a data grading score 5 91.3 10 \$29,221,709 10 \$10.88 5 \$506.50 SCORE IS: 68 out of 100 *** water loss is included in the care	MG/Yr MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi \$/Year \$/100 cubic feet (ccf) \$/Million gallons	he responsibility of the utility) se Customer Retail Unit Cost to value real losses				
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains:	9 270.7 7 24,671 91 Yes 0 and a data grading score 5 91.3 10 \$29,221,709 10 \$10.88 5 \$506.50 SCORE IS: 68 out of 100 *** water loss is included in the care	MG/Yr MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi \$/Year \$/100 cubic feet (ccf) \$/Million gallons	he responsibility of the utility) se Customer Retail Unit Cost to value real losses				
NON-REVENUE WATER = Water Losses + Unbilled Metered + Unbilled Unmetered SYSTEM DATA Length of mains:	9 270.7 7 24,671 91 Yes 0 and a data grading score 5 91.3 10 \$29,221,709 10 \$10.88 5 \$506.50 SCORE IS: 68 out of 100 *** water loss is included in the care	MG/Yr MG/Yr miles conn./mile main (length of service boundary, that is to of 10 has been applied psi \$/Year \$/100 cubic feet (ccf) \$/Million gallons	he responsibility of the utility) se Customer Retail Unit Cost to value real losses				

	AWWA Free Water Audit Software: Reporting Worksheet						
Click to access definition Click to add a comment	Water Audit Report for: City of Reporting Year: 20		er Departmen - 12/2019	nt (4410010)			
Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades							
	All volumes to	be entered as: M	ILLION GALL	ONS (US) PER YEAR			
To select the	correct data grading for each input, determin- utility meets or exceeds all criteria for that				Master Meter and Si	upply Error Adjustments	
WATER SUPPLIED	utility meets of exceeds <u>all</u> offeria for that	•		n column 'E' and 'J'		Value:	
WATEROOFFEED	Volume from own sources: + ?	5	2,673.244	MG/Yr + ?	9 0	MG/Yr	
	Water imported: + 3			MG/Yr + ?		MG/Yr	
	Water exported: + ?	5	00.433	MG/Yr + ?	9 September 19 Sep	Value for under-registration	
	WATER SUPPLIED:		2,604.811	MG/Yr	-	value for over-registration	
AUTHORIZED CONSUMPTION		-				Click here:	
	Billed metered: +	6	2,344.106			for help using option	
	Billed unmetered: + 3 Unbilled metered: + 3		0.328 15.413		Pcnt:	buttons below Value:	
	Unbilled unmetered:	8	19.235		0	19.235 MG/Yr	
					•		
	AUTHORIZED CONSUMPTION:		2,379.082	MG/Yr	<u>i</u> p	Use buttons to select ercentage of water supplied <u>OR</u>	
WATER LOSSES (Water Supplied	- Authorized Consumption)		225.729	MG/Yr	_	value	
Apparent Losses	,				Pcnt:	▼ Value:	
	Unauthorized consumption:		6.512	MG/Yr	0.25%	MG/Yr	
Default op	tion selected for unauthorized consumpti	on - a grading of	5 is applied b	but not displayed			
	Customer metering massarasies.	6	53.977		0	● 53.977 MG/Yr	
Default	Systematic data handling errors: + 2 option selected for Systematic data hand		5.860 ading of 5 is a		0.25% ①	C MG/Yr	
	Apparent Losses:		66.349		_		
Real Losses (Current Annual Rea			450 200				
Real Losses -	• Water Losses - Apparent Losses:		159.380				
	WATER LOSSES:		225.729	MG/Yr			
NON-REVENUE WATER	NON-REVENUE WATER		260.377	MC/Vr			
= Water Losses + Unbilled Metered + U	NON NEVENOL WATER.		200.577	WG/TI			
SYSTEM DATA							
	Length of mains: +	9	270.7	miles			
Number of <u>acti</u>	ve AND inactive service connections: Service connection density:	8	24,745 91	conn./mile main			
	•			oom,,,,,,,,,			
	ated at the curbstop or property line? <u>rage</u> length of customer service line: + ?		Yes		ne, beyond the property be	oundary,	
	of customer service line has been set to z		ading score	that is the responsi of 10 has been applied	bility of the utility)		
	Average operating pressure:	5	91.0	psi			
COST DATA		-	200 107 200				
	nnual cost of operating water system: int cost (applied to Apparent Losses):		\$29,187,880	\$/Year \$/100 cubic feet (ccf)			
	luction cost (applied to Real Losses):				Customer Retail Unit Cost to	value real losses	
WATER AUDIT DATA VALIDITY SCORE:							
	*** YOU	R SCORE IS: 66 o	out of 100 ***				
A we	ighted scale for the components of consumption a	nd water loss is inclu	uded in the calc	culation of the Water Audit Da	ata Validity Score		
PRIORITY AREAS FOR ATTENTION:							
Based on the information provided, audit accuracy can be improved by addressing the following components:							
1: Volume from own sources							
2: Billed metered							
3: Variable production cost (applied to Real Losses)							