

Metering Improvements Payback Period

Weston & Sampson Engineers Inc.

Presented Improvements Options

Upfront Expense (\$)

Payback Period

No Change to Metering Practice	\$0	NA
Option 1 - Mobile AMR & Meters Installed by Town	\$977,126	6.0 Years
Option 2 - Fixed Network AMI & Meters Installed by Town	\$1,246,910	7.4 Years
Option 3 - Mobile AMR & Meters Installed by Contractor	\$1,540,449	6.8 Years
Option 4 - Fixed Network AMI & Meters Installed by Contractor	\$1,810,233	8.2 Years

Description	Existing Condition	Option 1	Option 2	Option 3	Option 4
		Mobile AMR & Meters by Town	Fixed AMR & Meters by Town	Mobile AMR & Meters by Contr	Fixed AMR & Meters by Contr
Year 1					
Meter Reading Vehicle Expense	\$4,480	\$4,480	\$4,480	\$4,480	\$4,480
Reading Equipment Maintenance & Service Fees	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Water Revenue Loss from Under-Registration (meters >15-years)	\$223,874	\$186,561	\$186,561	\$111,937	\$111,937
Staff Augmentation for Installation	\$0	\$40,000	\$40,000	\$0	\$0
Subtotal:	\$233,354	\$236,041	\$236,041	\$121,417	\$121,417
Annual Benefit:		(\$2,688)	(\$2,688)	\$111,937	\$111,937
Cumulative Benefit:		(\$2,688)	(\$2,688)	\$111,937	\$111,937
Year 2					
Meter Reading Vehicle Fuel	\$4,601	\$4,601	\$4,601	\$448	\$224
Reading Equipment Maintenance & Service Fees	\$5,135	\$9,587	\$24,499	\$4,200	\$18,720
Water Revenue Loss from Under-Registration (meters >15-years)	\$229,918	\$114,959	\$114,959	\$690	\$690
Staff Augmentation for Installation	\$0	\$40,000	\$40,000	\$0	\$0
Subtotal:	\$239,654	\$169,147	\$184,059	\$5,338	\$19,634
Annual Benefit:		\$70,507	\$55,595	\$234,316	\$220,020
Cumulative Benefit:		\$67,819	\$52,907	\$346,253	\$331,957

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Description	Existing Condition	Mobile AMR & Meters by Town	Fixed AMR & Meters by Town	Mobile AMR & Meters by Contr	Fixed AMR & Meters by Contr
Year 3					
Meter Reading Vehicle Fuel	\$4,725	\$4,725	\$4,725	\$460	\$230
Reading Equipment Maintenance & Service Fees	\$5,274	\$9,846	\$25,161	\$4,313	\$19,225
Water Revenue Loss from Under-Registration (meters >15-years)	\$236,126	\$39,354	\$39,354	\$1,417	\$1,417
Staff Augmentation for Installation	\$0	\$40,000	\$40,000	\$0	\$0
Subtotal:	\$246,125	\$93,925	\$109,240	\$6,190	\$20,872
Annual Benefit:		\$152,199	\$136,885	\$239,935	\$225,253
Cumulative Benefit:		\$220,019	\$189,792	\$586,188	\$557,210
Year 4					
Meter Reading Vehicle Fuel	\$4,853	\$473	\$236	\$473	\$236
Reading Equipment Maintenance & Service Fees	\$5,416	\$4,430	\$19,745	\$4,430	\$19,745
Water Revenue Loss from Under-Registration (meters >15-years)	\$242,501	\$728	\$728	\$2,183	\$2,183
Staff Augmentation for Installation	\$0	\$0	\$0	\$0	\$0
Subtotal:	\$252,770	\$5,630	\$20,708	\$7,085	\$22,163
Annual Benefit:		\$247,140	\$232,062	\$245,685	\$230,607
Cumulative Benefit:		\$467,159	\$421,854	\$831,873	\$787,817

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Year 5					
Meter Reading Vehicle Fuel	\$4,984	\$485	\$243	\$485	\$243
Reading Equipment Maintenance & Service Fees	\$5,562	\$4,549	\$20,278	\$4,549	\$20,278
Water Revenue Loss from Under-Registration (meters >15-years)	\$249,049	\$1,494	\$1,494	\$2,989	\$2,989
Staff Augmentation for Installation	\$0	\$0	\$0	\$0	\$0
Subtotal:	\$259,595	\$6,529	\$22,015	\$8,023	\$23,509
Annual Benefit:		\$253,066	\$237,580	\$251,572	\$236,086
Cumulative Benefit:		\$720,225	\$659,434	\$1,083,445	\$1,023,903
Year 6					
Meter Reading Vehicle Fuel	\$5,118	\$498	\$249	\$498	\$249
Reading Equipment Maintenance & Service Fees	\$5,712	\$4,672	\$20,825	\$4,672	\$20,825
Water Revenue Loss from Under-Registration (meters >15-years)	\$255,773	\$2,302	\$2,302	\$3,837	\$3,837
Staff Augmentation for Installation	\$0	\$0	\$0	\$0	\$0
Subtotal:	\$266,604	\$7,473	\$23,376	\$9,007	\$24,911
Annual Benefit:		\$259,131	\$243,228	\$257,597	\$241,693
Cumulative Benefit:		\$979,356	\$902,662	\$1,341,041	\$1,265,596

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Year 7					
Meter Reading Vehicle Fuel	\$5,257	\$512	\$256	\$512	\$256
Reading Equipment Maintenance & Service Fees	\$5,867	\$4,798	\$21,387	\$4,798	\$21,387
Water Revenue Loss from Under-Registration (meters >15-years)	\$262,679	\$3,152	\$3,152	\$4,728	\$4,728
Staff Augmentation for Installation	\$0	\$0	\$0	\$0	\$0
Subtotal:	\$273,802	\$8,462	\$24,795	\$10,039	\$26,372
Annual Benefit:		\$265,340	\$249,007	\$263,764	\$247,431
Cumulative Benefit:		\$1,244,696	\$1,151,669	\$1,604,805	\$1,513,027
Year 8					
Meter Reading Vehicle Fuel	\$5,398	\$526	\$263	\$526	\$263
Reading Equipment Maintenance & Service Fees	\$6,025	\$4,928	\$21,965	\$4,928	\$21,965
Water Revenue Loss from Under-Registration (meters >15-years)	\$269,771	\$4,047	\$4,047	\$5,665	\$5,665
Staff Augmentation for Installation	\$0	\$0	\$0	\$0	\$0
Subtotal:	\$281,195	\$9,500	\$26,274	\$11,119	\$27,893
Annual Benefit:		\$271,695	\$254,921	\$270,076	\$253,302
Cumulative Benefit:		\$1,516,391	\$1,406,590	\$1,874,881	\$1,766,329