

Water Treatment	Breakroom	1,336
Water Treatment	Chemical Storage	520
Water Treatment	Conference Room	520
Water Treatment	Electrical Mechanical	260
Water Treatment	Hallway	6,149
Water Treatment	Lab	5,429
Water Treatment	Lobby	2,600
Water Treatment	Locker Room	3,936
Water Treatment	Night Light	8,760
Water Treatment	Open Office	2,080
Water Treatment	Plant	520
Water Treatment	Private Office	396
Water Treatment	Restroom	1,040
Water Treatment	Stairwell	520
Water Treatment	Storage	520
Water Treatment	Workshop	1,560
City Hall	Exterior	4,368
Eppley Fire station	Exterior	4,368
Garage	Exterior	4,368
Leonard Fire Station	Exterior	4,368
Parks and Rec	Exterior	4,368
Police Annex	Exterior	4,368
Safety Building	Exterior	4,368
Secrest Auditorium	Exterior	4,368
Stadium	Stadium	364
Traffic	Exterior	4,368
Vehicle Maintenance	Exterior	4,368
Wastewater Treatment Plant	Exterior	4,368
Water Treatment	Exterior	4368

HVAC

HVAC Occupied hours are listed in the following table:

City Hall

SUN	MON	TUES	WED	THURS	FRI	SAT
None	7am-5pm	7am-5pm	7am-5pm	7am-5pm	7am-5pm	None

Fire Station -Eppley

SUN	MON	TUES	WED	THURS	FRI	SAT
24/7	24/7	24/7	24/7	24/7	24/7	24/7

Fire Station -Leonard

SUN	MON	TUES	WED	THURS	FRI	SAT
24/7	24/7	24/7	24/7	24/7	24/7	24/7

Street Maintenance/Sanitation

SUN	MON	TUES	WED	THURS	FRI	SAT
None	7am-5pm	7am-5pm	7am-5pm	7am-5pm	7am-5pm	None

Police Annex

SUN	MON	TUES	WED	THURS	FRI	SAT
None	7am-5pm	7am-5pm	7am-5pm	7am-5pm	7am-5pm	None

Safety Building

SUN	MON	TUES	WED	THURS	FRI	SAT
24/7	24/7	24/7	24/7	24/7	24/7	24/7

Secrest Auditorium

SUN	MON	TUES	WED	THURS	FRI	SAT
None	7am-5pm	7am-5pm	7am-5pm	7am-5pm	7am-5pm	None

Light/Traffic Building

SUN	MON	TUES	WED	THURS	FRI	SAT
None	7am-5pm	7am-5pm	7am-5pm	7am-5pm	7am-5pm	None

Vehicle Maintenance

SUN	MON	TUES	WED	THURS	FRI	SAT
None	7am-5pm	7am-5pm	7am-5pm	7am-5pm	7am-5pm	None

Waste Water Treatment Plant

SUN	MON	TUES	WED	THURS	FRI	SAT
24/7	24/7	24/7	24/7	24/7	24/7	24/7

Water Treatment Plant

SUN	MON	TUES	WED	THURS	FRI	SAT
24/7	24/7	24/7	24/7	24/7	24/7	24/7

5. Water Meter Accuracy Guarantee

ABM's Guarantee is based solely upon water meter accuracy as determined by testing a statistically valid random sample of water meters operating under normal conditions, which have been replaced pursuant to the contract. No guarantee, express or implied, is provided with respect to any other matters, including, without limitation, the following items (and the effects thereof):

- a. water system revenue
- b. water usage/consumption trends
- c. water rationing programs
- d. demographic and/or population shifts
- e. changes in the industrial or commercial base
- f. regulatory changes
- g. droughts, floods, rainfall, or other weather or climactic conditions
- h. water system pressure variations
- i. non-metered water usage
- j. failure to collect amounts due for billable consumption

- k. changes in monthly base charges, monthly allowable minimum base consumption, or monthly
- l. volume charges
- m. changes to water and sewer rate schedules
- n. water quality
- o. failure of the water system to meet governmental requirements
- p. improper maintenance or unsound usage of the Improvement Measures or any related equipment
- q. performance of automatic meter reading equipment

6. Water Meter Accuracy Shortfalls

In the event that the Measured Weighted System Accuracy in any Guarantee Year is less than the Guaranteed Accuracy required for that Guarantee Year, ABM shall, compensate Customer the amount of any such Shortfall, in such form as agreed to by the parties, limited by the value of the annual guarantee, within thirty (30) days. Resulting compensation shall be ABM's sole liability for any Shortfall in the Guaranteed Accuracy.

The Shortfall for the missed year is equal to:

*(Current year Guaranteed Accuracy – current year Measured Weighted System Accuracy) * (Penalty per Percentage Point Value)*

Where, the maximum annual Shortfall is limited to the (Maximum Annual Shortfall Allowable).

Penalty per Percentage Point of Accuracy Missed shall be as follows:

Guarantee Year	Per point Penalty
Year 1	\$ 80,168
Year 2	\$ 80,168
Year 3	\$ 80,168
Year 4	\$ 80,168
Year 5	\$ 80,168

Total penalty will be calculated based on the above table using increments of 0.1% of deviation from accuracy target.

Maximum Annual Shortfall Allowable shall be as follows:

Guarantee Year	Maximum Annual Shortfall
Year 1	\$564,606
Year 2	\$564,606
Year 3	\$564,606
Year 4	\$564,606
Year 5	\$564,606

Exhibit D

1. Annual Guaranteed Energy Unit Savings- Buildings

Client Baseline – Current Energy Use

Electric kWh – 2,206,142 kWh

Natural Gas – 10,203 MMBTU

Contractor will guarantee the following annual reduction of kWh, MMBTU of Natural Gas

Energy Unit Savings

Electrical Savings 522,194 kWh

Natural Gas Savings 1,092 MMBTU

INITIAL BASE ENERGY RATES**:

Building / Facility	Elec (\$/kWh)	Nat Gas (\$/MMBTU)
City Hall	\$ 0.095	\$ 8.0
Fire Station - Eppley	\$ 0.106	\$ 5.7
Fire Station - Leonard	\$ 0.087	\$ 8.4
Water/Sewer	\$ 0.191	\$ 7.3
Parks & Rec - Main Building	\$ 0.100	\$ 5.6
Street Maintenance/Sanitation	\$ 0.135	\$ 8.1
Police Annex	\$ 0.089	\$ 8.6
Safety Building	\$ 0.082	\$ 6.8
Secret Auditorium	\$ 0.108	\$ 7.2
Light/Traffic Building	\$ 0.112	-
Vehicle Maintenance/Water Maintenance	\$ 0.099	\$ 10.0

** Base energy rate will escalate at 3% annually

1. Projected Utility Savings: \$ 59,167
2. Agreed Upon Operational and Cost Avoidance Savings \$ 41,204

2. Annual Guaranteed Energy Unit Savings- Wastewater Treatment Plant

Client Baseline – Current Energy Use

Electric kWh – 8,886,180 kWh

Natural Gas – 473 MMBTU

Contractor will guarantee the following annual reduction of kWh, MMBTU of Natural Gas

Energy Unit Savings

Electrical Savings 130,558 kWh

INITIAL BASE ENERGY RATES**:

Building / Facility	Elec (\$/kWh)	Nat Gas (\$/MMBTU)
Wastewater Treatment Plant	\$ 0.083	\$ 9.2

** Base energy rate will escalate at 3% annually

- ** Base energy rate will escalate at 3% annually
- 3. Projected Utility Savings: \$ 10,866
- 4. Agreed Upon Operational and Cost Avoidance Savings \$ 186,834

3. Water Meter Accuracy Guarantee and Baseline Conditions

Contractor will guarantee the annual water meter accuracy of the meters replaced as part of this project as listed in Attachment A Scope of Work of the District-wide Meter Replacement and Services Upgrades Project Agreement. Payments for shortfalls will be calculated based on the stipulated baseline billed water consumption and the weighted average meter accuracy as described below:

New Meter Accuracy Guarantee, Annual

Meter Size	Guarantee Year	Guaranteed Accuracy
5/8"	Year 1-5	98.5%
3/4"	Year 1-5	98.5%
1"	Year 1-5	98.5%
1.5"	Year 1-5	98.5%
2"	Year 1-5	98.5%
Large Meters (>3 inches)	Year 1-5	98.5%

If the guarantee is extended beyond the initial 5-year term, the accuracy guarantee will align with manufacturer specification for each meter size

Baseline Conditions:

The baseline billed annual water consumption for the water meters is 1,285,052 CCF, from June 2018 through May 2019 based on consumption data provided by City of Zanesville. This baseline consumption shall be used to calculate the annual financial benefit for the remainder of the guarantee term. Consumption by Meter size is listed in the following table:

Size	Consumption (CCF)	% of Total CCF
5/8" X 3/4"	569269	44.30%
3/4"	1065	0.08%
1	71263	5.55%
1- 1/2"	5093	0.40%
2"	238801	18.58%
3"	185838	14.46%
4"	146195	11.38%
6"	67381	5.24%
8"	147	0.01%
10"	0	0.00%
Total	1,285,052	100.00%

Baseline Water Rates**:

Service Code	Rate Code	Base up to 2 ccf	2 ccf to 48 ccf	Over 48 ccf
100 - WATER	1 - INSIDE CITY	\$11.70	\$3.50	\$3.00
100 - WATER	2 - OUTSIDE CITY	\$17.55	\$5.25	\$4.50
100 - WATER	7 - MULTI-INSIDE	\$21.00	\$3.50	\$3.00
100 - WATER	8 - MULTI-OUTSIDE	\$17.55	\$5.25	\$4.50
100 - WATER	8-C - MULTI COM OUT	\$31.50	\$5.25	\$4.50
100 - WATER	1-C - INSIDE CITY COM	\$21.00	\$3.50	\$3.00
100 - WATER	1-CMI - COM MIN INSIDE	\$21.00		
100 - WATER	1-C-W+ - INSIDE CITY COM-NOT SHARED WITH SEWER	\$21.00	\$3.50	\$3.00
100 - WATER	1-RMI - RES MIN INSIDE	\$11.70		
100 - WATER	2-C - OUTSIDE CITY-COM	\$31.50	\$5.25	\$4.50
100 - WATER	2-CW+ - OUTSIDE CITY COM-NOT SHARED WITH SEWER	\$31.50	\$5.25	\$4.50
100 - WATER	2-CMO - COM MIN OUTSIDE	\$31.50		
100 - WATER	2-RMO - RES MIN OUTSIDE	\$17.55		
100 - WATER	7-C - MULTI COM UNITS	\$21.00	\$3.50	\$3.00
100 - WATER	7-RB - MULTI-INSIDE RESIDENTIAL/BUSINESS	\$11.70 / \$21.00	\$3.50	\$3.00

Service Code	Rate Code	Tier 1 (\$/CCF)	Tier 2 (\$/CCF)
400 - SEWER	0 - MULTI RES IN	\$ 3.66	
400 - SEWER	1 - BUSINESS IN	\$ 4.29	\$ 3.20
400 - SEWER	3 - RESIDENTIAL IN	\$ 3.66	
400 - SEWER	3A - RESIDENTIAL IN WATER+NO SEW	\$ 3.66	
400 - SEWER	4 - RESIDENTIAL OUT	\$ 5.49	
400 - SEWER	5 - MULTI RES IN	\$ 3.66	\$ -
400 - SEWER	8 - BUSINESS OUT	\$ 6.44	\$ 4.80
400 - SEWER	8-GLASS - BUSINESS OUT-GLASS	\$ 6.44	\$ 4.80
400 - SEWER	10 - BUS NO MIN	\$ 4.29	\$ 3.20
400 - SEWER	A - MO MRES OUT	\$ 5.49	
400 - SEWER	UC - MO COMBO 1-R1-B	\$ 3.66	

** Base water/sewer rate will escalate at 3% annually

Baseline Meter Accuracy:

Baseline meter accuracy was determined by testing a random sample of meters currently in service. A total of 333 meters were tested by Rainbow Municipal Water District. The breakdown of tested meters by meter size is as follows:

Meter Size	Quantity
5/8 inch	69
1 inch	58
2 inch	25
3 inch	22
4 inch	10
6 inch	10

Each meter was tested per AWWA guidelines at multiple flow rates representing low, medium, and high flow scenarios. The accuracy at each flow rate was then weighted by the AWWA recommended ratio of 15% low flow, 70% medium flow, and 15% high flow. The individual flow accuracies were then added together to determine the weighted accuracy of each individual meter. Following is a sample calculation:

Individual Weighted Meter Accuracy

$$IWMA = (LFWF * LFA) + (MFWF * MFA) + (HFWF * HFA)$$

Where:

- IWMA* = Individual Weighted Average Meter Accuracy, in percent.
- LFWF* = Low flow rate weighting factor = 0.15 per AWWA standard M6.
- LFA* = Low flow accuracy in percent, per meter testing data.
- MFWF* = Medium flow rate weighting factor = 0.70 per AWWA standard M6.
- MFA* = Medium flow accuracy in percent, per meter testing data.
- HFWF* = High flow rate weighting factor = 0.15 per AWWA standard M6.
- HFA* = High flow accuracy in percent, per meter testing data.