

Medina City Schools



Energy Savings Program

PERFORMANCE YEAR 12
October 2020 – September 2021
YEAR END SAVINGS REPORT
April 26th, 2022

Prepared by:
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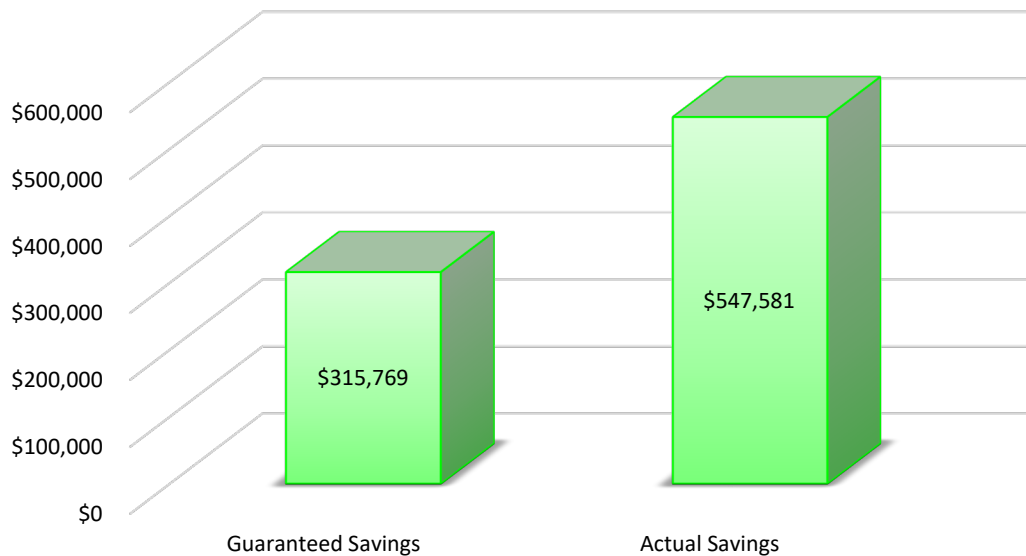
Section 1: Overview

The Brewer-Garrett Company ("Brewer-Garrett") is pleased to present results of this year's energy savings benefits of the Energy Savings Program at Medina City Schools ("Medina"). Construction was completed in the fall of 2009, so we are currently tracking savings for Performance Year 12 (October 2020 through September 2021).

For Performance Year 12, we guaranteed \$315,769 in total energy, water, and sewer savings.

Year 12 (PY12), ending in September 2021, was another successful year for energy savings. Medina saved \$547,851, this past year for a total cumulative savings of \$6,097,564. See Section 3 for an updated summary of savings over the entire history of the project.

Energy Savings Program Overview: Medina City Schools



Section 2: Savings Guarantee Summary

The Performance Guarantee is governed by the Energy Performance Agreements executed by Medina City Schools and The Brewer-Garrett Company on August 31, 2007 and September 30, 2013 (collectively as the "Contract"). The Performance Guarantee, summarized in Table 2a, is based on the Contract dated 8/31/2007 Schedule C "Energy and Operational Savings Guarantee." The Total Guaranteed Savings over the term of this agreement (15 years) is \$4,736,535.

Table 2a: Performance Guarantee Summary

Total Guaranteed Savings (\$) per Contract 8/31/2007	\$4,736,535	<u>See Table 3a.</u>
Total Guaranteed Savings (\$) per Contract 9/30/2013	\$419,467	

Guaranteed Savings (\$)					
Performance Year		Water/Sewer/ Energy Savings (\$)	Stipulated Operational Savings (\$)	Total Guaranteed Savings (\$)	Cumulative Guaranteed Savings (\$)
1	2010	\$315,769	\$0	\$315,769	\$315,769
2	2011	\$315,769	\$0	\$315,769	\$631,538
3	2012	\$315,769	\$0	\$315,769	\$947,307
4	2013	\$315,769	\$0	\$315,769	\$1,263,076
5	2014	\$315,769	\$0	\$315,769	\$1,578,845
6	2015	\$315,769	\$0	\$315,769	\$1,894,614
7	2016	\$315,769	\$0	\$315,769	\$2,210,383
8	2017	\$315,769	\$0	\$315,769	\$2,526,152
9	2018	\$315,769	\$0	\$315,769	\$2,841,921
10	2019	\$315,769	\$0	\$315,769	\$3,157,690
11	2020	\$315,769	\$0	\$315,769	\$3,473,459
12	2021	\$315,769	\$0	\$315,769	\$3,789,228
13	2022	\$315,769	\$0	\$315,769	\$4,104,997
14	2023	\$315,769	\$0	\$315,769	\$4,420,766
15	2024	\$315,769	\$0	\$315,769	\$4,736,535
Total		\$4,736,535	\$0	\$4,736,535	

Note: The Combined Heat and Power (CHP) project (contract executed 9/30/2013) guaranteed \$537,112 to cover the cost of the project (adjusted to \$419,467 since the project was not financed.) This guarantee amount is not included in the table above, since the CHP project was funded via excess savings from years 1 through 3 of the program. See Table 3a.

A second Energy Performance and Service Agreement dated 9/30/2013 provided for the installation of a Combined Heat and Power ("CHP") Project that was estimated to generate \$62,833 in additional energy savings and increase operational costs by \$17,760 annually for a net savings of \$45,073. This second agreement guaranteed that Medina would recover the cost of the CHP project including construction and financing costs estimated at \$537,122. Since Medina was able to fund the project without financing, thereby eliminating interest costs, the guaranteed amount was adjusted to \$419,467, equivalent to the installed cost for the CHP system.

For auditing and verification purposes the parties agreed that the original Total Guaranteed Savings amount of \$4,736,535 for the original contract should not be increased to reflect the additional CHP project guarantees; instead, the Cumulative Actual Savings achieved during Performance Years 1 through 3 was reduced by \$419,467 as shown in Table 3a.

Section 3: Performance History

At the end of Performance Year 12, Medina City Schools had accumulated more than \$6 million in savings since the beginning of the energy savings program, more than \$2.3 million above the cumulative guaranteed savings.

Table 3a: Performance History for the Medina City Schools Energy Savings Program

Performance Year	Guaranteed Savings (\$)	Actual Savings (\$)	Cumulative Guaranteed Savings (\$)	Cumulative Actual Savings (\$)
--- Interim Period	-----	\$470,472	-----	\$470,472
1 10/09 - 9/10	\$315,769	\$438,675	\$315,769	\$909,147
2 10/10 - 9/11	\$315,769	\$478,648	\$631,538	\$1,387,795
3 10/11 - 9/12	\$315,769	\$444,287	\$947,307	\$1,832,082
Note: CHP Project contract was signed 9/30/2013 and guaranteed total savings of \$419,467; this Project was funded via the excess savings from years 1 through 3 of the guarantee. The annual Guaranteed Savings amount has not been increased to reflect the additional CHP Project guarantee; instead the Cumulative Actual Savings for Performance Year 3 has been reduced by \$419,467.				
3 rev 10/11 - 9/12	\$315,769	\$444,287	\$947,307	\$1,412,615
4 10/12 - 9/13	\$315,769	\$501,965	\$1,263,076	\$1,914,580
5 10/13 - 9/14	\$315,769	\$566,866	\$1,578,845	\$2,481,447
6 10/14 - 9/15	\$315,769	\$501,972	\$1,894,614	\$2,983,419
7 10/15 - 9/16	\$315,769	\$440,660	\$2,210,383	\$3,424,079
8 10/16 - 9/17	\$315,769	\$460,049	\$2,526,152	\$3,884,128
9 10/17 - 9/18	\$315,769	\$583,582	\$2,841,921	\$4,467,710
10 10/18 - 9/19	\$315,769	\$575,634	\$3,157,690	\$5,043,344
11 10/19 - 9/20	\$315,769	\$506,639	\$3,473,459	\$5,549,983
12 10/20 - 9/21	\$315,769	\$547,581	\$3,789,228	\$6,097,564
13 10/21 - 9/22	\$315,769			
14 10/22 - 9/23	\$315,769			
15 10/23 - 9/24	\$315,769			
Total	\$4,736,535			

Energy Audit for Medina City Schools, Year 12

The undersigned agrees that The Brewer-Garrett Company delivered this audit report to Medina City Schools. If no written reply is made to The Brewer-Garrett Company concerning the validity of this audit in 30 days, it will be considered received by Medina City Schools.

Received by:

Date:

Medina City Schools

Delivered by:

Date:

The Brewer-Garrett Company

YEAR END SAVINGS REPORT

Section 4: Summary of Savings**Medina City Schools ~ Performance Year 12****Summary of Savings**

Electric			
KWH Used In Base Year		11,180,440	KWH
Baseline for	Performance Year 12	10,057,810	KWH
Actual Usage for	Performance Year 12	7,187,466	KWH
Total KWH Saved		2,870,344	KWH
Total Dollars Saved		\$338,911	
Natural Gas			
MCF Used In Base Year		42,373	MCF
Baseline for	Performance Year 12	43,884	MCF
Actual Usage for	Performance Year 12	28,094	MCF
Total MCF Saved		15,790	MCF
Total Dollars Saved		\$184,503	
Water and Sewer			
Water Used In Base Year		3,676	CCF
Water Baseline for	Performance Year 12	3,676	CCF
Water Actual Usage for	Performance Year 12	1,728	CCF
Total Water CCF Saved		1,948	CCF
Total Water Dollars Saved		\$3 409	
Total Sewer Dollars Saved		\$20,757	
Total Water & Sewer Dollars Saved		\$24,166	
Total Actual Savings	Performance Year 12	\$547,581	
Total Guaranteed Savings	Performance Year 12	\$315,789	

Table 4a

Section 5: Electric Savings

Several projects implemented as part of the Medina City Schools Energy Savings Program were projected to achieve electric savings. These projects include a) district wide lighting retrofits and occupancy sensor installations, b) lighting controls at the High School, c) district wide vending machine control, d) variable frequency drives at Ella Canavan, Root and the High School, e) demand ventilation at Blake, Heritage, High School and Root, f) building automation system upgrades at the High School, and g) electric fan coil unit replacement with a natural gas unit at Heritage. The savings at Blake, as a result of our rate investigation with First Energy/Ohio Edison have continued.

The adjusted electric baseline usage, actual electric usage, and base year electric usage are plotted side by side for each month in Figure 5a below.

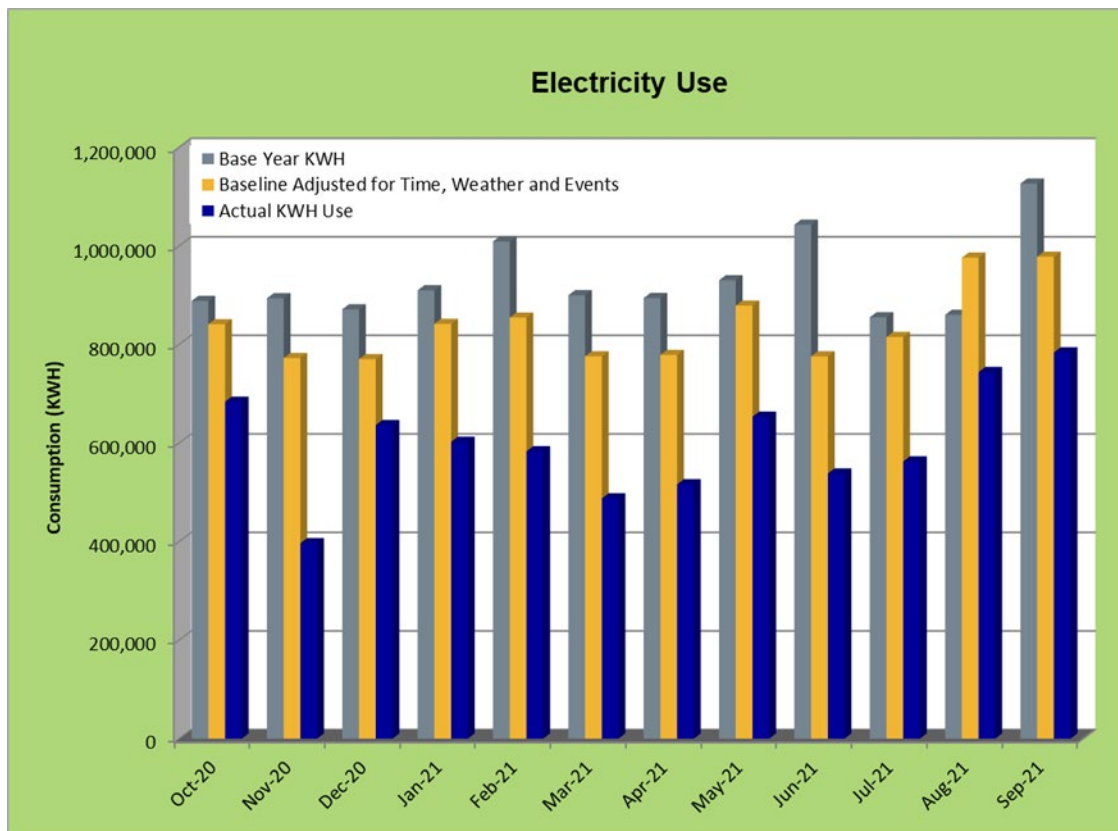


Figure 5a

Electric savings are determined by multiplying the energy and demand saving units by the applicable utility rate to convert units saved to dollars saved. Units of electricity saved are equal to the Baseline kWh minus Actual kWh, where the Baseline is the Base Year adjusted for time, weather, and events. The electric savings are calculated monthly and then summed to yield an annual amount. The

applicable utility rate is based on the larger of the electric rate paid during the Performance Year or the Base Year as specified in Section 8.1 of the Contract.

Electric use in all the Medina City Schools that were affected by Brewer-Garrett is summarized in Figure 5b. During Performance Year 12, the annual electric usage in the schools affected by the Energy Savings Program decreased by over 2.8 million kWh (29%) from the Baseline. This is a savings of \$338,911 to Medina, and a reduction of 3,478 metric tons of CO₂ emissions, which is equivalent to keeping 663 passenger vehicles off the road for one year.

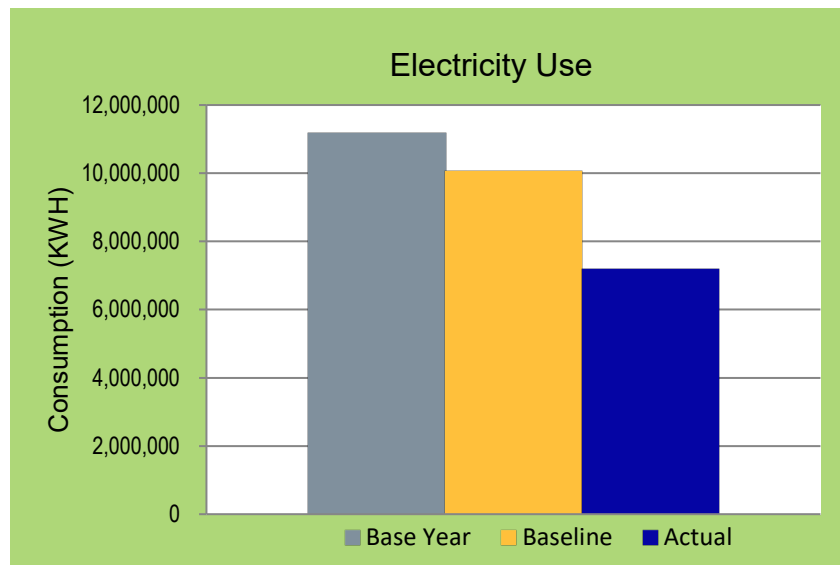


Figure 5b

Section 6: Natural Gas Savings

Several projects implemented as part of the Medina City Schools Energy Savings Program were projected to result in natural gas savings. These projects include a) demand ventilation at Blake, Heritage, High School and Root, b) building automation system upgrades at the High School, c) heat recovery and pool system modifications at the High School, and d) replacement of heating/ventilating units at Fenn and Garfield. The replacement of an electric fan coil unit with a gas-fired unit at Heritage was expected to save electricity but use more natural gas.

The adjusted natural gas baseline usage, actual natural gas usage, and base year natural gas usage are plotted side by side for each month in Figure 6a below.

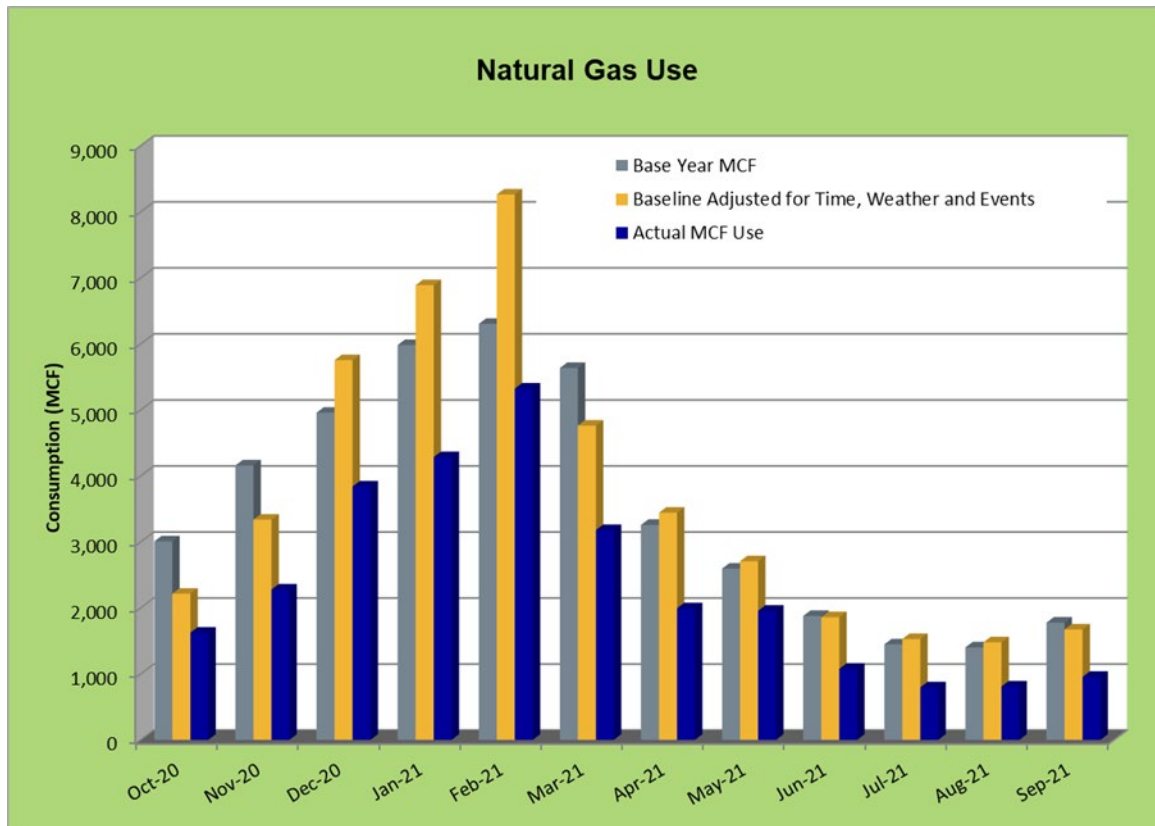


Figure 6a

Natural gas dollar savings are calculated each month by multiplying the monthly natural gas rate in \$/MCF by the units of natural gas saved. The monthly natural gas rate in \$/MCF is calculated based on Total Natural Gas \$ / Total Natural Gas MCF and is calculated separately for each building. The units of natural gas saved are equal to the Baseline MCF minus Actual MCF, where Baseline is the Base Year adjusted for time, weather and events. The natural gas savings are calculated each month,

and then summed to yield an annual savings. The energy savings are calculated based on the larger of the natural gas rate paid during the Performance Year or the Base Year as specified in Section 8.1 of the Contract.

Natural gas use in all the Medina City Schools that were affected by Brewer-Garrett is summarized in Figure 6b. During Performance Year 12, the natural gas usage in the schools affected by the Energy Savings Program has been reduced by 15,790 MCF, or 36% from the Baseline. This is a savings of \$184,503 to Medina, and a reduction of 769 metric tons of CO₂ emissions, which is equivalent to keeping 146 passenger vehicles off the road for one year.

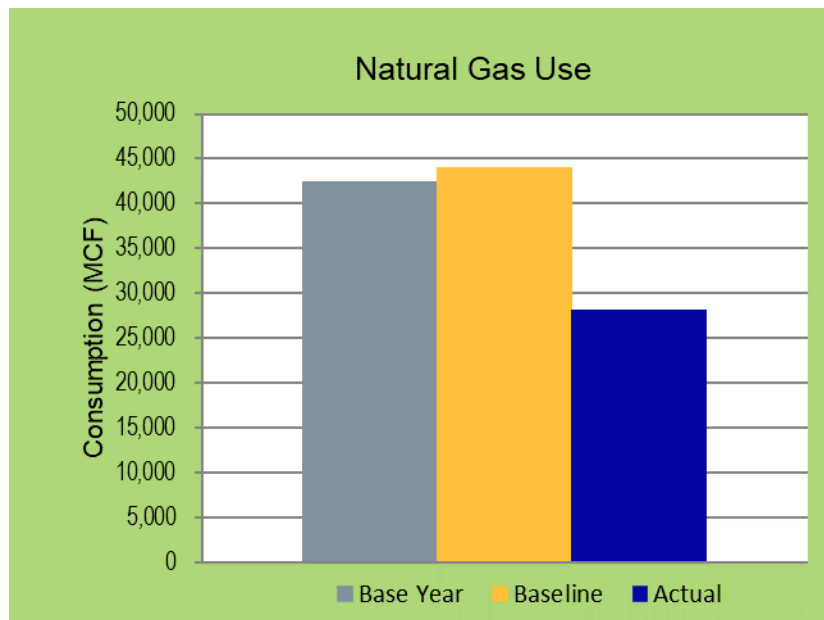


Figure 6b

Section 7: Water and Sewer Savings

Water conservation projects were implemented at Claggett and Garfield as part of the Medina City Schools Energy Savings Program and included the replacement of water-cooled condensers with air cooled units, and the automation of flush systems for urinals in the boys' bathrooms. In addition, Brewer-Garrett was instrumental in effecting a sewer rate change for Claggett. As a result, water and sewer savings were expected at both Claggett and Garfield.

Sewer savings were expected at the High School, where a sub-meter was installed for the cooling tower. This sub-meter enables the measurement of water evaporation to the atmosphere during the cooling process.

Sewer billings at Claggett, Garfield, and the High School are based on a fixed UNITS of sewer used every two months. These bills are adjusted for usage and rates periodically, but usually function independently of the actual water usage at each school. As a result, Brewer-Garrett calculates what the sewer usage should be and then analyzes the difference, to determine if the District is over billed or underbilled.

During a review of sewer billing data, it was determined that the Medina County Sanitary Engineering Department has reduced the quantity of sewer UNITS that each school is billed, no doubt in response to a reduction in water use. An analysis was performed to validate the sewer billing practices; this summary is shown in Table 7a. This table shows that the District is still being slightly overbilled for the sewer usage, but the over billing is almost \$9,000 less than last year.

Sewer UNITS Billing Analysis		Claggett	Garfield	High School
Annual Actual Water Use	CCF	816	912	8,836
Annual Actual Water Use	Gallons	610,368	682,176	6,609,328
Annual Actual UNITS Used	UNITS	87	97	944
Annual UNITS Billed	UNITS	141	173	992
Monthly Actual UNITS Used	UNITS	7.27	8.12	78.68
Monthly UNITS Billed	UNITS	11.75	14.42	82.67
Overbilled or (Underbilled)	UNITS	54	76	48
Overbilled or (Underbilled)	\$	\$1,575	\$2,210	\$1,398
Total Overbilled (Underbilled)	UNITS		177	
Total Overbilled (Underbilled)	\$		\$5,184	

Note:

1 "Unit" = 230 gallons/day

1 "Unit" = 7,000 gallons/month

Table 7a

During the PY 11 report Brewer-Garrett recognized that Medina was being over billed again for sewer at the High School, Claggett, and Garfield. Medina City Schools presented this information and data to the Sanitary Engineering Department where the rates were analyzed for correctness. As a result of this data the sewer UNITS of usage were drastically reduced in May of 2021 at all three schools. The reduction is shown in Table 7b.

Sewer UNITS Billing Analysis		Claggett	Garfield	High School
BiMonthly Units Billed - Before Correction	UNITS	30.24	37.60	199.56
BiMonthly Units Billed - After Correction	UNITS	16.78	20.07	131.11
BiMonthly Savings	UNITS	13.46	17.53	68.45
Savings Per BiMonthly Bill	UNITS		99	
Total Savings Over 3 Billings (6 Months)	UNITS		298	
Savings (\$29.75/UNIT)	\$		\$8,875	

Note:

1 "Unit" = 230 gallons/day

1 "Unit" = 7,000 gallons/month

Table 7b

Water dollar savings are calculated each month by multiplying the monthly water rate in \$/CCF by the units of water saved. The monthly water rate in \$/CCF is calculated based on: Total Water \$ / Total Water CCF and is calculated separately for each building. The units of water saved are equal to the Baseline CCF minus Actual CCF, where Baseline is the Base Year use with no adjustments. The water savings are calculated each month, and then summed to yield an annual savings. The Base Year, Base Line and Actual usage are shown monthly side by side in Figure 7c.

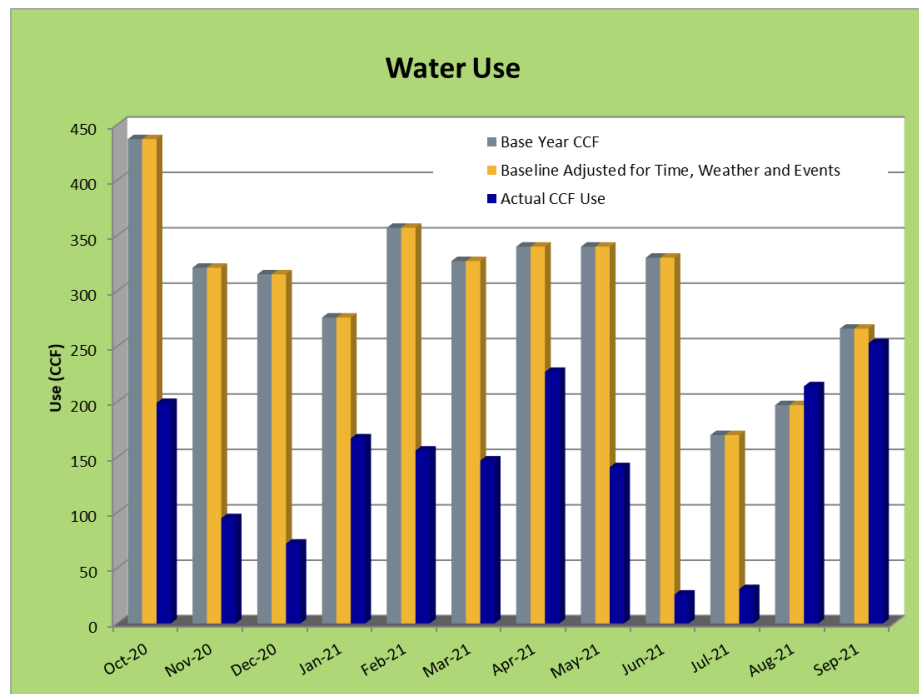


Figure 7c

Sewer dollar savings are calculated bi-monthly, to correspond with actual sewer bills. Sewer savings in this performance report are from: a) Claggett, as the result of the reduction in sewer “units” that Brewer-Garrett was instrumental in securing, and b) Garfield, as the result of the reduction in water use, and the corresponding reduction in sewer “units” that the Medina County Sanitary Engineering Department implemented. No sewer savings for the High School were included in this report. The sewer savings in terms of “units” are multiplied by the sewer rate in \$/“unit” on a bi-monthly basis, and then summed to yield an annual savings.

The water and sewer savings are calculated based on the larger of the water and sewer rates paid during the Performance Year or the Base Year as specified in Section 8.1 of the Contract.

The combined water use for Claggett and Garfield is summarized in Figure 7d. The Base Year, Baseline and Actual total usage during Performance Year 12 are shown side-by-side for comparison. The overall water usage in these schools has been reduced by approximately 53% from the Baseline; this is a savings to Medina of over \$24,166 in water and sewer charges.

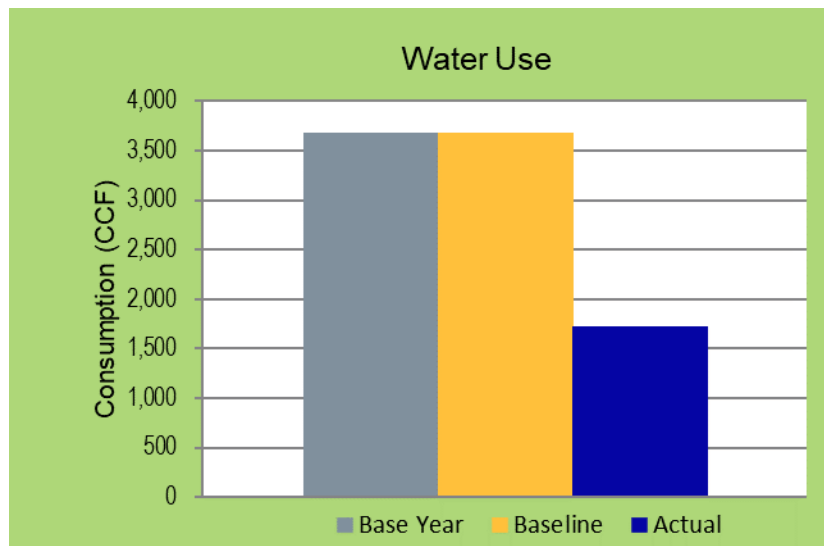


Figure 7d

Section 8: Operational Savings

No operational savings were claimed on this project.

Section 9: Adjustments

Adjustments are incorporated in the baseline projection for energy use to include changes in the number of days in a billing period as well as weather fluctuations, and events.

COVID19

The impact of COVID19 on electricity, natural gas, and water and sewer consumption was investigated for each month of the pandemic during this performance year. During discussions in Performance Year 12 it was brought to our attention that Medina resumed normal, pre-COVID, building operations and occupancy at the start of the 2020-2021 school year. Brewer-Garrett reviewed monthly weather data and utility usage for PY10 and PY12 side by side to verify this claim. After careful review of the utility data and changes in weather before and after the pandemic, Brewer-Garrett did not see the need for any additional COVID adjustments to be made during this performance year.

Additional Equipment

The heating/ventilating units at Fenn and Garfield were replaced and air conditioning was added as part of the Energy Savings Program. The energy use associated with the air conditioning equipment is an adjustment to the baseline as addressed in Schedule F of the Contract: Savings Calculation Formulae: Methodology to Adjust Baseline.

The additional demand and energy use for these units is calculated based on the information in Table 9a and is included in the Electric Baseline.

School Name	Quantity	Unit Description
Fenn Elementary	1	Library/Computer Lab Unit 10 ton, EER=11, 2300 hrs
	1	Gym Unit 10 ton, EER=11, 2700 hrs
Garfield Elementary	1	Gym Unit 12 ton, EER=9.7, 2925 hrs

Table 9a

Lighting Retrofit

The District Wide Lighting Retrofit Project realized its first full year of savings during Performance Year 11. The lighting project is separate from the original energy savings program. To ensure the savings from the lighting retrofit were not accounted for twice, the energy savings associated with lighting project is an adjustment to the baseline of the energy savings program. The lighting retrofit adjustment were calculated from measurement and verification savings. The Lighting M&V Savings Summary is provided in Appendix B.

Section 10: Energy Savings – Performance Year 12

For Performance Year 12 (October 2020 through September 2021), Brewer-Garrett guarantees \$315,769 in annual savings as shown in Table 2a.

Based on utility bills for electric, natural gas, water and sewer, Medina saved \$547,581.

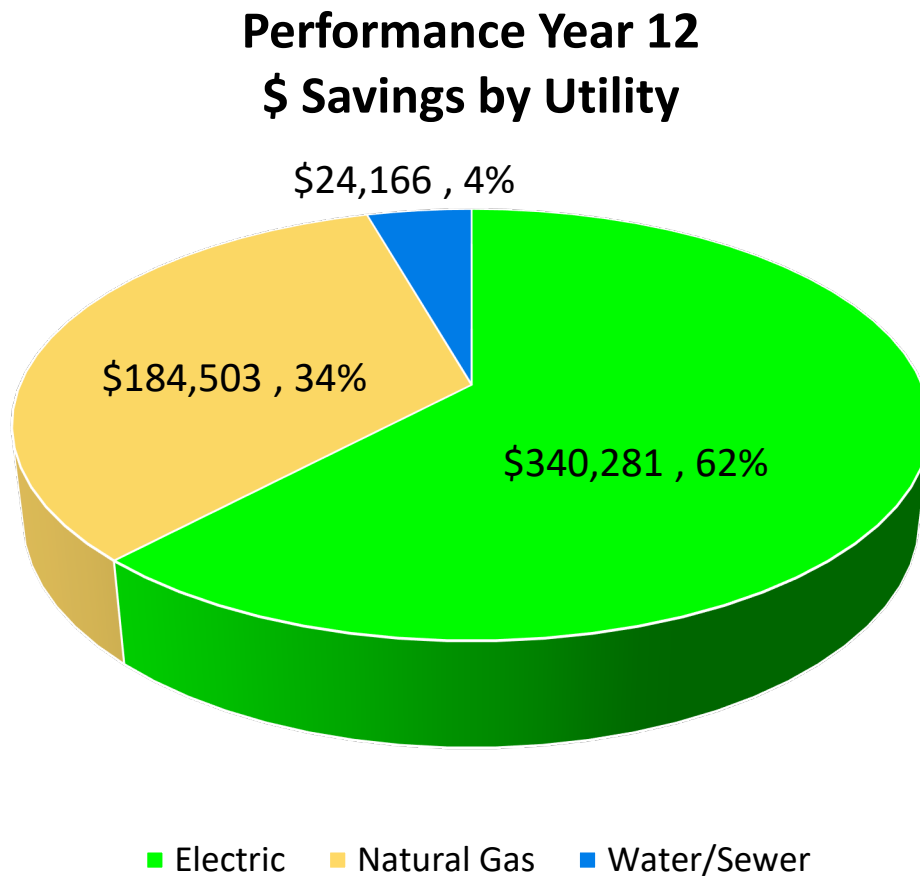


Figure 10a

Section 11: Conclusion

Brewer-Garrett is pleased to be Medina's energy partner. We believe in bringing value to the partnership in areas outside of merely reporting energy savings.

This year Brewer-Garrett worked with the District to get five buildings Energy Star Certified. The certification process included multiple site visits to confirm that indoor air and illumination quality standards were being met, while still operating the building in an efficient manner. Our engineers reviewed drawings, on site conditions, and provided stamped documents for the EPA as part of the application process at no additional cost.

In the Performance Year 11 Report BG analyzed the water and sewer usage at all buildings throughout the District and determined that several buildings were still being overbilled. Medina provided this data to the Sanitary Engineering Department and was able to start an investigation that ultimately lowered costs by nearly \$9,000. As water usage continues to change, Brewer-Garrett will continue to monitor the sewer billings to advocate for additional changes in the future.

Brewer-Garrett assisted in replacement of the High School kitchen freezer lights. Some of the lamps wouldn't turn on because of the extreme cold temperatures.

We also assisted the District in negotiating and implementing a new service agreement for the combined heat and power (CHP) unit at the High School. This new contract will last for the remaining useful life of the unit. Once the unit reaches the end of its useful life BG will assist the District in deciding whether to overhaul the system or install a new unit. Brewer-Garrett also worked with one of our partners to get the District free water quality testing to ensure that water quality would not be an issue for the maintenance of the CHP unit.

Brewer-Garrett also presented Medina with a potential opportunity to drill a natural gas well on District property. This project would allow the District to save on natural gas rates and earn a royalty from the production of the well, while the production company operates the well and maintains all relevant environmental standards. Ultimately the District decided not to pursue this project, but BG is willing to assist if the District decides to revisit this opportunity in the future.

In addition to these energy opportunities BG also provided the Medina with a \$12,000 scholarship to be used at the District's discretion. This scholarship is the result of tax credits from the 2017 Lighting Project.

Appendix A – Tables and Charts

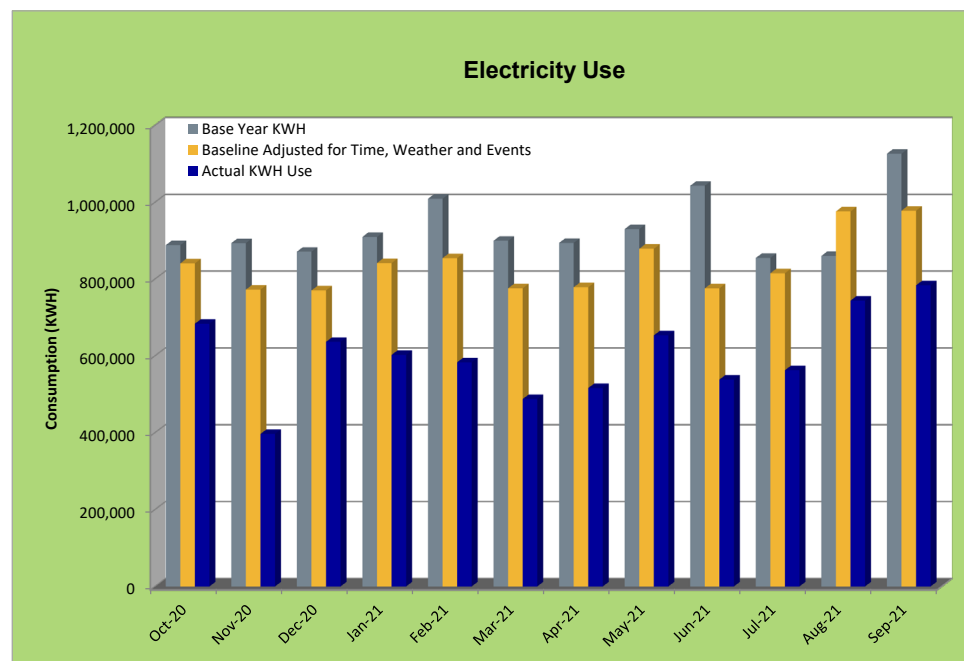
Medina City Schools ~ Performance Year 12

Electricity Summary

Electricity Used In Base Year	11,180,440	KWH
Adjustments for Time, Weather and Events	(1,122,630)	KWH
Baseline Usage	10,057,810	KWH
Actual Usage	7,187,466	KWH

Total KWH Saved 2,870,344

Total Dollars Saved \$338,911



Medina City Schools ~ Performance Year 12

Electricity Savings

Electricity Base Year Units KWH

	October	November	December	January	February	March	April	May	June	July	August	September	Total
KWH													
Blake Elementary	53,120	55,640	55,920	47,080	60,880	58,760	48,520	56,240	53,440	34,360	41,800	55,360	621,120
Claggett Middle	38,080	41,280	40,160	45,920	49,760	45,440	34,560	41,920	33,120	21,440	21,600	44,960	458,240
Ella Canavan Elementary	27,520	24,880	24,720	23,360	25,760	25,760	24,080	29,840	29,360	18,240	14,800	26,800	295,120
Fenn Elementary	19,920	23,280	16,720	18,960	22,800	21,600	18,720	20,560	16,560	12,480	14,880	22,160	228,640
Garfield Elementary	27,360	24,960	26,040	20,160	27,840	26,400	24,120	26,520	29,160	15,000	24,480	30,720	302,760
Heritage Elementary	34,240	42,000	46,880	64,160	58,160	53,520	41,040	37,920	34,400	21,200	28,240	36,400	498,160
Medina High School	589,200	578,400	554,400	600,000	645,600	561,600	613,200	612,000	732,000	684,000	646,800	801,600	7,618,800
Kindergarten Center	8,160	9,240	8,880	8,880	11,040	8,160	9,800	8,520	7,280	6,240	6,080	9,400	101,680
Root Middle	90,640	93,920	97,520	81,280	107,200	98,560	80,080	96,640	107,680	42,000	61,440	98,960	1,055,920
Total KWH	888,240	893,600	871,240	909,800	1,009,040	899,800	894,120	930,160	1,043,000	854,960	860,120	1,126,360	11,180,440

Electricity Base Year Cost \$

	October	November	December	January	February	March	April	May	June	July	August	September	Total
Cost \$													
Blake Elementary	\$9,600	\$9,704	\$9,715	\$9,285	\$9,841	\$9,753	\$9,332	\$9,650	\$9,534	\$8,825	\$9,132	\$9,692	\$114,063
Claggett Middle	\$5,402	\$5,205	\$4,655	\$5,425	\$5,539	\$5,426	\$5,307	\$5,461	\$5,091	\$3,208	\$3,304	\$5,622	\$59,645
Ella Canavan Elementary	\$3,920	\$3,401	\$2,853	\$2,778	\$3,538	\$3,887	\$2,848	\$4,238	\$4,603	\$2,870	\$2,332	\$3,800	\$41,069
Fenn Elementary	\$2,254	\$2,380	\$1,896	\$2,246	\$2,345	\$2,313	\$1,403	\$2,267	\$2,235	\$1,256	\$1,593	\$2,459	\$24,647
Garfield Elementary	\$3,338	\$2,973	\$2,938	\$2,844	\$3,138	\$3,022	\$3,000	\$3,343	\$4,481	\$2,316	\$3,770	\$4,411	\$39,574
Heritage Elementary	\$4,169	\$4,947	\$5,756	\$6,266	\$6,093	\$6,324	\$5,201	\$4,286	\$5,078	\$3,021	\$4,223	\$4,411	\$59,776
Medina High School	\$58,128	\$57,109	\$54,509	\$39,837	\$46,096	\$52,823	\$56,607	\$56,576	\$63,172	\$61,799	\$60,844	\$63,586	\$671,086
Kindergarten Center	\$1,290	\$1,346	\$1,330	\$940	\$997	\$919	\$991	\$1,063	\$1,151	\$988	\$963	\$1,352	\$13,331
Root Middle	\$14,124	\$14,183	\$14,218	\$10,979	\$10,965	\$11,571	\$11,340	\$10,461	\$14,028	\$12,127	\$6,581	\$9,620	\$140,197
Total Cost \$	\$102,225	\$101,247	\$97,872	\$80,600	\$88,552	\$96,037	\$96,028	\$97,345	\$109,374	\$96,412	\$92,742	\$104,952	\$1,163,388

Electricity Base Year Unit Cost \$/KWH

	October	November	December	January	February	March	April	May	June	July	August	September	Average Base Year Demand & Energy Rate	
Unit Cost \$/KWH														
Blake Elementary	\$0.181	\$0.174	\$0.174	\$0.197	\$0.162	\$0.166	\$0.192	\$0.172	\$0.178	\$0.257	\$0.218	\$0.175	\$17.00/KW	\$0.0400/KWH
Claggett Middle	\$0.142	\$0.126	\$0.116	\$0.118	\$0.111	\$0.119	\$0.154	\$0.130	\$0.154	\$0.150	\$0.153	\$0.125	\$16.11/KW	\$0.0593/KWH
Ella Canavan Elementary	\$0.142	\$0.137	\$0.115	\$0.119	\$0.137	\$0.151	\$0.118	\$0.142	\$0.157	\$0.157	\$0.158	\$0.142	\$14.68/KW	\$0.0686/KWH
Fenn Elementary	\$0.113	\$0.102	\$0.113	\$0.118	\$0.103	\$0.107	\$0.075	\$0.110	\$0.135	\$0.101	\$0.107	\$0.111	\$21.98/KW	\$0.0298/KWH
Garfield Elementary	\$0.122	\$0.119	\$0.113	\$0.141	\$0.113	\$0.114	\$0.124	\$0.126	\$0.154	\$0.154	\$0.154	\$0.144	\$15.08/KW	\$0.0662/KWH
Heritage Elementary	\$0.122	\$0.118	\$0.123	\$0.098	\$0.105	\$0.118	\$0.127	\$0.113	\$0.148	\$0.142	\$0.150	\$0.121	\$19.87/KW	\$0.0397/KWH
Medina High School	\$0.099	\$0.099	\$0.098	\$0.066	\$0.071	\$0.094	\$0.092	\$0.092	\$0.086	\$0.090	\$0.094	\$0.079	\$20.65/KW	\$0.0257/KWH
Kindergarten Center	\$0.158	\$0.146	\$0.150	\$0.106	\$0.090	\$0.113	\$0.101	\$0.125	\$0.158	\$0.158	\$0.158	\$0.144	\$14.28/KW	\$0.0724/KWH
Root Middle	\$0.156	\$0.151	\$0.146	\$0.135	\$0.102	\$0.117	\$0.142	\$0.108	\$0.130	\$0.289	\$0.107	\$0.097	\$15.43/KW	\$0.0652/KWH

Medina City Schools ~ Performance Year 12

Electricity Savings

Electricity Actual Performance Year Units KWH

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
KWH													
Blake Elementary	34,966	32,272	32,599	32,640	33,089	28,397	37,454	34,476	19,013	28,680	50,280	36,320	400,186
Claggett Middle	28,160	28,320	27,200	31,200	29,120	12,160	22,400	4,960	8,120	14,560	35,520	40,480	282,200
Ella Canavan Elementary	15,440	11,680	11,280	16,560	13,440	7,520	21,520	18,160	10,640	15,680	17,760	21,440	181,120
Fenn Elementary	16,000	17,680	14,080	18,960	15,280	14,720	14,720	4,080	4,000	4,000	22,560	18,480	164,560
Garfield Elementary	19,800	12,840	16,440	18,240	16,440	13,680	16,000	19,200	14,520	13,320	29,040	21,240	210,760
Heritage Elementary	19,760	33,200	15,520	34,880	31,040	14,800	15,680	28,800	16,060	12,320	29,780	24,480	276,320
Medina High School	489,600	205,200	460,800	378,000	400,800	344,400	362,400	487,200	422,400	434,400	469,200	544,800	4,999,200
Kindergarten Center	7,360	5,280	9,360	5,240	8,720	6,240	6,120	6,960	7,120	8,120	8,880	8,840	88,240
Root Middle	52,640	50,160	49,120	66,640	35,200	45,520	19,840	49,440	36,320	31,520	80,800	67,680	584,880
Total KWH	683,726	396,632	636,399	602,360	583,129	487,437	516,134	653,276	538,193	562,600	743,820	783,760	7,187,466

Electricity Actual Performance Year Cost \$

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
Cost \$													
Blake Elementary	\$4,344	\$4,185	\$3,758	\$3,591	\$3,960	\$4,027	\$4,731	\$4,809	\$3,075	\$4,976	\$6,291	\$5,545	\$53,293
Claggett Middle	\$3,806	\$3,139	\$3,035	\$3,237	\$3,123	\$2,463	\$2,862	\$2,222	\$1,094	\$2,076	\$4,347	\$4,411	\$35,815
Ella Canavan Elementary	\$2,350	\$2,209	\$1,368	\$1,754	\$2,002	\$1,353	\$2,723	\$2,830	\$2,731	\$2,819	\$2,623	\$3,315	\$28,075
Fenn Elementary	\$1,377	\$2,835	\$1,986	\$2,182	\$1,994	\$1,702	\$1,665	\$1,274	\$1,306	\$1,522	\$2,093	\$1,915	\$21,851
Garfield Elementary	\$2,003	\$1,795	\$1,779	\$1,927	\$1,823	\$1,845	\$1,980	\$2,655	\$1,917	\$2,055	\$3,364	\$2,727	\$25,870
Heritage Elementary	\$2,426	\$3,391	\$2,323	\$3,380	\$3,177	\$2,581	\$2,591	\$3,202	\$2,496	\$1,520	\$3,230	\$2,839	\$33,155
Medina High School	\$41,306	\$27,587	\$35,692	\$31,210	\$31,572	\$34,793	\$36,209	\$41,003	\$38,004	\$38,964	\$41,554	\$45,367	\$443,260
Kindergarten Center	\$880	\$714	\$909	\$665	\$813	\$723	\$740	\$885	\$973	\$1,094	\$1,116	\$1,117	\$10,629
Root Middle	\$8,148	\$8,240	\$5,922	\$6,673	\$5,085	\$6,166	\$5,407	\$9,345	\$7,479	\$7,753	\$10,321	\$9,857	\$90,396
Total Cost \$	\$66,640	\$54,095	\$56,772	\$54,619	\$53,549	\$55,654	\$58,908	\$68,225	\$59,074	\$62,778	\$74,938	\$77,093	\$742,344

Electricity Actual Performance Year Unit Cost \$/KWH

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	
Unit Cost \$/KWH													
Blake Elementary	\$0.124	\$0.130	\$0.115	\$0.110	\$0.120	\$0.142	\$0.126	\$0.139	\$0.162	\$0.174	\$0.125	\$0.153	
Claggett Middle	\$0.135	\$0.111	\$0.112	\$0.104	\$0.107	\$0.203	\$0.128	\$0.448	\$0.135	\$0.143	\$0.122	\$0.109	
Ella Canavan Elementary	\$0.152	\$0.189	\$0.121	\$0.106	\$0.149	\$0.180	\$0.127	\$0.156	\$0.257	\$0.180	\$0.148	\$0.155	
Fenn Elementary	\$0.086	\$0.160	\$0.141	\$0.115	\$0.131	\$0.116	\$0.113	\$0.312	\$0.326	\$0.380	\$0.093	\$0.104	
Garfield Elementary	\$0.101	\$0.140	\$0.108	\$0.106	\$0.111	\$0.135	\$0.124	\$0.138	\$0.132	\$0.154	\$0.116	\$0.128	
Heritage Elementary	\$0.102	\$0.150	\$0.097	\$0.102	\$0.174	\$0.165	\$0.111	\$0.155	\$0.123	\$0.108	\$0.116	\$0.120	
Medina High School	\$0.084	\$0.134	\$0.077	\$0.083	\$0.079	\$0.101	\$0.100	\$0.084	\$0.090	\$0.090	\$0.089	\$0.083	
Kindergarten Center	\$0.120	\$0.135	\$0.097	\$0.127	\$0.093	\$0.116	\$0.121	\$0.127	\$0.137	\$0.135	\$0.126	\$0.126	
Root Middle	\$0.155	\$0.164	\$0.121	\$0.100	\$0.144	\$0.135	\$0.273	\$0.189	\$0.206	\$0.246	\$0.128	\$0.146	

Medina City Schools ~ Performance Year 12

Electricity Savings

Electricity Baseline Units KWH

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
KWH													
Blake Elementary	44,646	47,479	50,183	47,393	51,917	44,071	47,346	40,492	30,036	24,471	34,837	42,345	505,217
Claggett Middle	31,452	32,832	36,658	35,017	41,239	35,015	30,636	31,024	20,502	16,863	22,854	31,054	365,146
Ella Canavan Elementary	15,993	18,255	22,824	23,529	19,977	17,389	16,635	12,649	12,796	10,801	11,483	11,074	193,404
Fenn Elementary	13,658	19,056	19,583	23,561	18,038	14,742	16,142	21,483	24,642	23,393	26,325	15,343	235,967
Garfield Elementary	22,625	20,543	21,228	24,658	22,064	21,488	22,859	24,728	22,909	21,721	28,520	23,569	276,911
Heritage Elementary	35,048	49,394	50,332	54,846	50,827	33,153	38,508	25,576	27,965	23,731	26,858	23,891	440,130
Medina High School	597,843	499,571	477,765	537,874	553,262	527,496	524,871	659,427	603,642	660,446	770,853	771,110	7,184,160
Kindergarten Center	5,993	5,740	7,197	9,754	9,144	6,629	5,446	5,949	3,891	3,675	3,840	4,007	71,266
Root Middle	73,709	79,536	84,436	85,089	87,936	75,871	76,181	57,441	29,386	29,970	50,491	55,563	785,610
Total KWH	840,967	772,406	770,208	841,722	854,404	775,853	778,623	878,768	775,769	815,072	976,060	977,957	10,057,810

Electricity Savings or (Shortfall) KWH

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
KWH													
Blake Elementary	9,680	15,207	17,584	14,694	21,603	15,674	9,892	6,016	11,023	4,332	(1,401)	6,025	130,329
Claggett Middle	3,292	4,512	9,458	3,817	12,119	22,855	8,236	26,064	12,382	2,303	(12,666)	(9,426)	82,946
Ella Canavan Elementary	553	6,575	11,544	10,860	10,646	9,869	(4,885)	(5,511)	2,156	12,541	(9,020)	(10,366)	34,962
Fenn Elementary	(2,342)	1,376	5,503	4,601	2,758	22	1,422	17,403	20,642	19,393	3,765	(3,137)	71,407
Garfield Elementary	2,825	7,703	4,788	5,399	(208)	7,808	6,859	5,528	8,389	6,366	1,789	2,329	59,575
Heritage Elementary	15,288	16,194	34,812	28,476	9,732	18,353	22,828	(3,224)	11,905	14,593	(1,425)	(589)	166,944
Medina High School	108,243	294,371	16,965	159,874	152,462	183,096	162,471	172,227	181,242	226,046	301,653	226,310	2,184,960
Kindergarten Center	(1,367)	460	(2,163)	4,514	424	389	(674)	(1,011)	(3,229)	(4,445)	(5,040)	(4,833)	(16,974)
Root Middle	21,069	29,376	35,316	18,449	52,736	30,351	56,341	8,001	(6,934)	(10,244)	(37,082)	(12,117)	185,263
Savings KWH	157,241	375,774	133,809	250,686	262,272	288,416	262,489	225,492	237,576	270,886	240,572	194,197	2,899,411

Electricity Savings or (Shortfall) \$

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
\$													
Blake Elementary	\$1,749	\$2,652	\$3,055	\$2,910	\$3,043	\$2,602	\$1,903	\$1,032	\$1,967	(\$1,081)	(\$3,374)	\$1,055	\$17,513
Claggett Middle	\$467	\$569	\$1,096	\$451	\$1,349	\$4,630	\$1,265	\$11,677	\$1,903	\$345	(\$1,937)	(\$1,179)	\$20,636
Ella Canavan Elementary	\$84	\$1,244	\$1,400	\$829	\$974	\$1,775	(\$618)	(\$859)	\$553	(\$877)	(\$989)	(\$1,603)	\$1,913
Fenn Elementary	(\$265)	\$221	\$776	\$545	\$360	\$3	\$161	\$5,435	\$6,739	\$7,378	\$403	(\$348)	\$21,408
Garfield Elementary	\$345	\$1,077	\$540	\$905	\$634	\$1,053	\$853	\$764	\$1,289	\$1,297	(\$80)	\$334	\$9,012
Heritage Elementary	\$1,877	\$1,907	\$5,211	\$1,950	\$2,073	\$3,200	\$3,773	(\$364)	\$1,850	\$1,626	(\$437)	(\$71)	\$22,594
Medina High School	\$10,679	\$39,574	\$1,668	\$13,200	\$12,010	\$18,497	\$16,233	\$15,922	\$16,306	\$20,423	\$28,376	\$18,845	\$211,734
Kindergarten Center	(\$216)	\$67	(\$324)	\$573	\$40	\$45	(\$81)	(\$129)	(\$510)	(\$704)	(\$799)	(\$695)	(\$2,734)
Root Middle	\$3,283	\$4,825	\$5,149	\$2,492	\$7,618	\$4,111	\$15,355	\$1,512	(\$1,428)	(\$447)	(\$3,871)	(\$1,765)	\$36,836
Savings \$	\$18,003	\$52,137	\$18,571	\$23,855	\$28,101	\$35,916	\$38,843	\$34,991	\$28,669	\$27,960	\$17,292	\$14,574	\$338,911

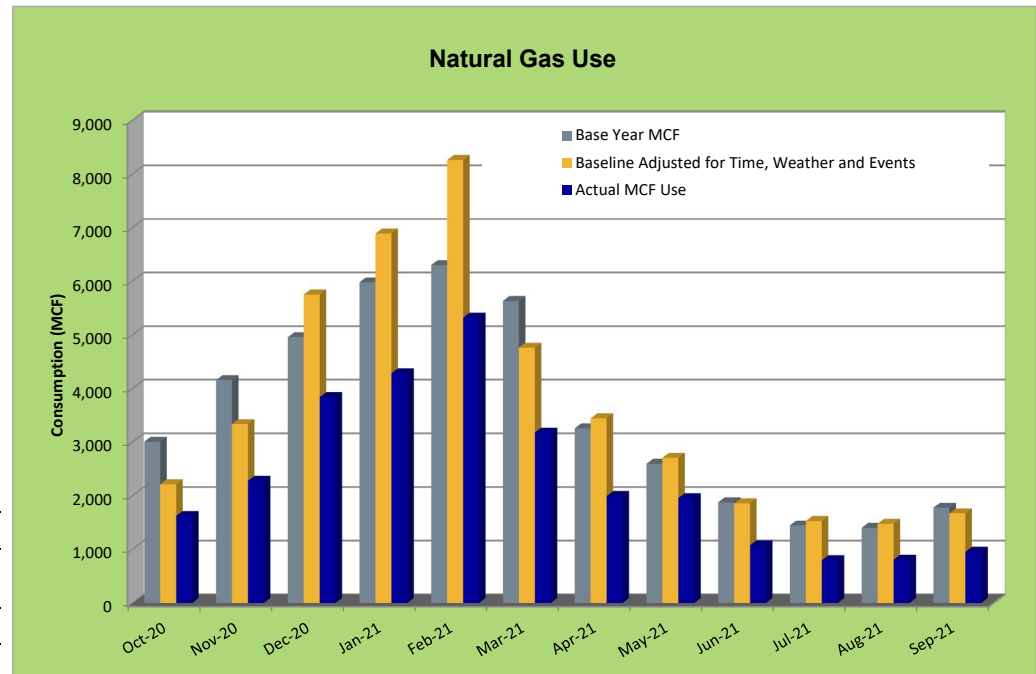
Medina City Schools ~ Performance Year 12

Natural Gas Summary

Natural Gas Used In Base Year	42,373	MCF
Adjustments for Time, Weather and Events	1,511	MCF
Baseline Usage	43,884	MCF
Actual Usage	28,094	MCF

Total MCF Saved 15,790

Total Dollars Saved \$184,503



Medina City Schools ~ Performance Year 12

Natural Gas Savings

Natural Gas Base Year Units MCF

	October	November	December	January	February	March	April	May	June	July	August	September	Total
MCF													
Blake Elementary	3	52	134	258	184	267	179	51	44	11	3	25	1,211
Fenn Elementary	88	250	238	372	407	333	148	101	15	4	14	4	1,974
Garfield Elementary	118	248	300	402	476	376	124	111	3	3	2	3	2,166
Heritage Elementary	12	17	36	64	46	54	27	1	5	0	2	2	266
Medina High School	2,742	3,356	3,932	4,508	4,725	4,275	2,550	2,233	1,765	1,424	1,379	1,713	34,602
Root Middle	43	233	315	376	462	327	227	96	44	3	0	28	2,154
Total MCF	3,006	4,156	4,955	5,980	6,300	5,632	3,255	2,593	1,876	1,445	1,400	1,775	42,373

Natural Gas Base Year Cost \$

	October	November	December	January	February	March	April	May	June	July	August	September	Total
Cost \$													
Blake Elementary	\$48	\$571	\$1,567	\$3,714	\$2,265	\$3,679	\$1,947	\$582	\$445	\$125	\$54	\$302	\$15,300
Fenn Elementary	\$752	\$2,671	\$2,765	\$5,311	\$4,939	\$4,553	\$1,600	\$1,114	\$47	\$53	\$165	\$60	\$24,029
Garfield Elementary	\$954	\$2,551	\$3,085	\$5,703	\$5,580	\$4,986	\$1,295	\$1,177	\$21	\$42	\$36	\$48	\$25,479
Heritage Elementary	\$112	\$182	\$412	\$926	\$558	\$734	\$296	\$26	\$62	\$16	\$36	\$37	\$3,396
Medina High School	\$22,664	\$35,483	\$45,205	\$63,965	\$56,940	\$58,043	\$27,140	\$24,096	\$16,629	\$13,055	\$14,586	\$18,848	\$396,654
Root Middle	\$376	\$2,491	\$3,651	\$5,358	\$5,602	\$4,470	\$2,440	\$860	\$435	\$43	\$16	\$353	\$26,096
Total Cost \$	\$24,906	\$43,948	\$56,685	\$84,978	\$75,885	\$76,464	\$34,718	\$27,855	\$17,639	\$13,334	\$14,893	\$19,648	\$490,954

Natural Gas Base Year Unit Cost \$/MCF

	October	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	
Unit Cost \$/MCF													
Blake Elementary	\$15.95	\$10.99	\$11.70	\$14.40	\$12.31	\$13.78	\$10.88	\$11.40	\$10.11	\$11.40	\$18.13	\$12.09	
Fenn Elementary	\$8.54	\$10.68	\$11.62	\$14.28	\$12.13	\$13.67	\$10.81	\$11.03	\$10.61	\$13.16	\$11.80	\$15.06	
Garfield Elementary	\$8.08	\$10.28	\$10.28	\$14.19	\$11.72	\$13.26	\$10.44	\$10.61	\$6.95	\$14.07	\$18.03	\$16.04	
Heritage Elementary	\$9.35	\$10.68	\$11.44	\$14.47	\$12.14	\$13.58	\$10.97	\$26.43	\$12.30	\$0.00	\$18.03	\$18.39	
Medina High School	\$8.27	\$10.57	\$11.50	\$14.19	\$12.05	\$13.58	\$10.64	\$10.79	\$9.42	\$9.17	\$10.58	\$11.00	
Root Middle	\$8.75	\$10.69	\$11.59	\$14.25	\$12.13	\$13.67	\$10.75	\$8.96	\$9.89	\$14.47	\$0.00	\$12.62	

Medina City Schools ~ Performance Year 12

Natural Gas Savings

Natural Gas Actual Performance Year Units MCF

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
MCF													
Blake Elementary	45	91	202	244	318	187	88	68	15	9	11	14	1,292
Fenn Elementary	73	170	355	400	499	242	147	90	20	10	12	22	2,040
Garfield Elementary	71	180	336	370	569	260	147	130	9	6	7	11	2,096
Heritage Elementary	15	52	122	128	163	90	40	30	4	1	2	4	651
Medina High School	1,365	1,615	2,497	2,764	3,270	2,101	1,421	1,511	1,003	756	762	878	19,943
Root Middle	54	169	325	376	501	297	150	126	24	13	13	24	2,072
Total MCF	1,623	2,277	3,837	4,282	5,320	3,177	1,993	1,955	1,075	795	807	953	28,094

Natural Gas Actual Performance Year Cost \$

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
Cost \$													
Blake Elementary	\$377	\$590	\$1,074	\$1,251	\$1,566	\$1,008	\$577	\$500	\$248	\$218	\$228	\$250	\$7,886
Fenn Elementary	\$508	\$936	\$1,736	\$1,925	\$2,345	\$1,246	\$836	\$603	\$273	\$223	\$233	\$291	\$11,155
Garfield Elementary	\$494	\$968	\$1,633	\$1,772	\$2,610	\$1,308	\$827	\$771	\$39	\$202	\$207	\$234	\$11,064
Heritage Elementary	\$232	\$405	\$720	\$743	\$890	\$579	\$350	\$304	\$192	\$177	\$182	\$199	\$4,974
Medina High School	\$6,135	\$7,353	\$10,989	\$12,041	\$14,198	\$9,285	\$6,356	\$6,787	\$4,580	\$3,522	\$3,527	\$4,068	\$88,840
Root Middle	\$419	\$931	\$1,607	\$1,821	\$2,353	\$1,484	\$849	\$762	\$294	\$238	\$238	\$301	\$11,298
Total Cost \$	\$8,164	\$11,183	\$17,759	\$19,553	\$23,962	\$14,911	\$9,795	\$9,728	\$5,626	\$4,580	\$4,616	\$5,342	\$135,218

Natural Gas Actual Performance Year Unit Cost \$/MCF

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	
Unit Cost \$/MCF													
Blake Elementary	\$8.37	\$6.48	\$5.32	\$5.13	\$4.92	\$5.39	\$6.55	\$7.35	\$16.54	\$24.21	\$20.74	\$17.84	
Fenn Elementary	\$6.96	\$5.51	\$4.89	\$4.81	\$4.70	\$5.15	\$5.69	\$6.69	\$13.67	\$22.30	\$19.44	\$13.21	
Garfield Elementary	\$6.95	\$5.38	\$4.86	\$4.79	\$4.59	\$5.03	\$5.62	\$5.93	\$4.35	\$33.68	\$29.59	\$21.27	
Heritage Elementary	\$15.47	\$7.79	\$5.90	\$5.80	\$5.46	\$6.44	\$8.76	\$10.14	\$48.05	\$177.09	\$91.05	\$49.69	
Medina High School	\$4.49	\$4.55	\$4.40	\$4.36	\$4.34	\$4.42	\$4.47	\$4.49	\$4.57	\$4.66	\$4.63	\$4.63	
Root Middle	\$7.76	\$5.51	\$4.94	\$4.84	\$4.70	\$5.00	\$5.66	\$6.05	\$12.24	\$18.32	\$18.34	\$12.54	

Medina City Schools ~ Performance Year 12

Natural Gas Savings

Natural Gas Baseline Units MCF

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
MCF													
Blake Elementary	2	4	7	275	333	189	126	94	36	21	21	23	1,132
Fenn Elementary	62	193	367	407	505	239	168	79	50	8	8	11	2,098
Garfield Elementary	53	164	393	500	655	299	159	101	14	6	6	6	2,355
Heritage Elementary	11	24	51	63	80	40	23	16	4	3	3	3	320
Medina High School	2,015	2,780	4,556	5,164	6,064	3,702	2,799	2,303	1,703	1,486	1,437	1,584	35,593
Root Middle	70	169	376	478	625	291	164	112	50	3	3	45	2,387
Total MCF	2,213	3,334	5,751	6,887	8,261	4,760	3,440	2,705	1,858	1,527	1,477	1,671	43,884

Natural Gas Savings or (Shortfall) MCF

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
MCF													
Blake Elementary	(43)	(87)	(195)	31	15	2	38	26	21	12	10	9	(160)
Fenn Elementary	(11)	23	12	7	6	(3)	21	(11)	30	(2)	(4)	(11)	58
Garfield Elementary	(18)	(16)	57	130	86	39	12	(29)	5	(0)	(1)	(5)	259
Heritage Elementary	(4)	(28)	(71)	(65)	(83)	(50)	(17)	(14)	0	2	1	(1)	(331)
Medina High School	650	1,165	2,059	2,400	2,794	1,601	1,378	792	700	730	675	706	15,650
Root Middle	16	(0)	51	102	124	(6)	14	(14)	26	(10)	(10)	21	315
Savings MCF	590	1,057	1,914	2,605	2,941	1,583	1,447	750	783	732	670	718	15,790

Natural Gas Savings or (Shortfall) \$

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
\$													
Blake Elementary	(\$683)	(\$959)	(\$2,281)	\$450	\$179	\$25	\$416	\$300	\$354	\$298	\$202	\$168	(\$1,531)
Fenn Elementary	(\$97)	\$250	\$145	\$93	\$74	(\$36)	\$231	(\$122)	\$416	(\$36)	(\$83)	(\$173)	\$663
Garfield Elementary	(\$144)	(\$162)	\$583	\$1,849	\$1,003	\$523	\$127	(\$311)	\$33	(\$8)	(\$40)	(\$107)	\$3,346
Heritage Elementary	(\$68)	(\$304)	(\$812)	(\$940)	(\$1,004)	(\$682)	(\$185)	(\$373)	\$2	\$306	\$66	(\$63)	(\$4,057)
Medina High School	\$5,372	\$12,322	\$23,672	\$34,060	\$33,668	\$21,731	\$14,667	\$8,549	\$6,592	\$6,692	\$7,141	\$7,762	\$182,229
Root Middle	\$144	(\$1)	\$596	\$1,452	\$1,501	(\$81)	\$151	(\$125)	\$321	(\$185)	(\$187)	\$268	\$3,853
Savings \$	\$4,524	\$11,147	\$21,902	\$36,964	\$35,421	\$21,480	\$15,407	\$7,918	\$7,719	\$7,067	\$7,100	\$7,856	\$184,503

Medina City Schools ~ Performance Year 12

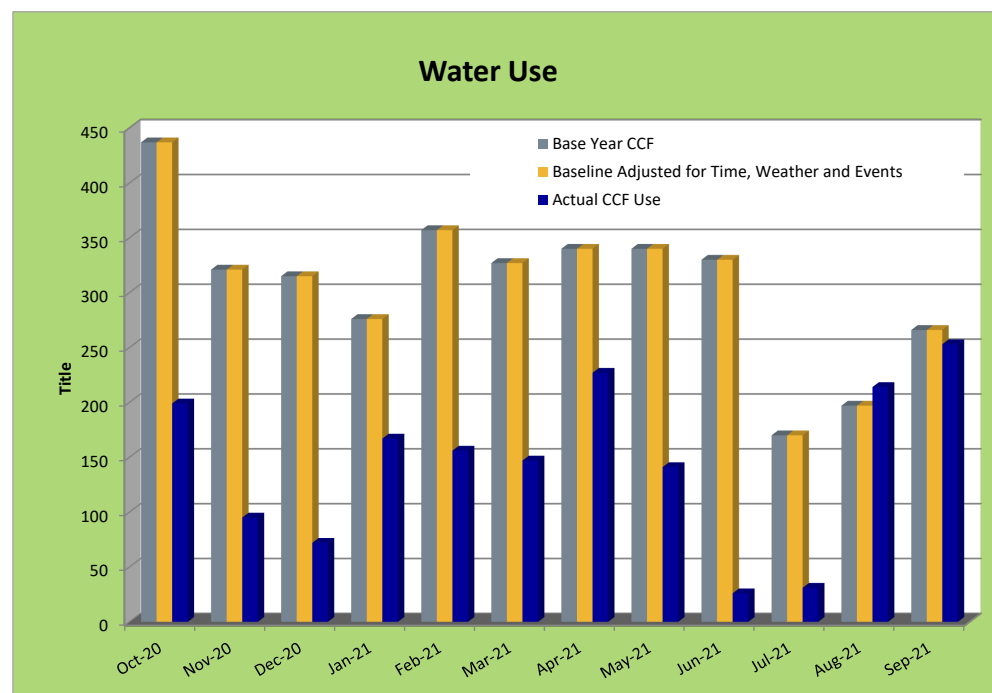
Water/Sewer Summary

Water Used In Base Year	3,676	CCF
Adjustments for Time, Weather and Events	0	CCF
Water Baseline Usage	3,676	CCF
Water Actual Usage	1,728	CCF

Total Water CCF Saved \$1,948

Total Water Dollars Saved \$3,409

Total Sewer Dollars Saved \$20,757



Medina City Schools ~ Performance Year 12

Water/Sewer Savings

Water Base Year Units CCF

	October	November	December	January	February	March	April	May	June	July	August	September	Total
CCF													
Claggett Middle	187	146	140	120	154	152	158	159	134	58	69	102	1,579
Garfield Elementary	250	175	175	156	203	175	182	181	196	112	128	164	2,097
Total CCF	437	321	315	276	357	327	340	340	330	170	197	266	3,676

Water Base Year Cost \$

	October	November	December	January	February	March	April	May	June	July	August	September	Total
Cost \$													
Claggett Middle	\$327	\$256	\$245	\$210	\$270	\$266	\$277	\$278	\$235	\$102	\$121	\$179	\$2,763
Garfield Elementary	\$438	\$306	\$306	\$273	\$355	\$306	\$319	\$317	\$343	\$196	\$224	\$287	\$3,670
Total Cost \$	765	562	551	483	625	572	595	595	578	298	345	466	6,433

Water Base Year Unit Cost \$/CCF

	October	November	December	January	February	March	April	May	June	July	August	September	
Cost \$/CCF													
Claggett Middle	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	
Garfield Elementary	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	

Medina City Schools ~ Performance Year 12

Water/Sewer Savings

Water Actual Performance Year Units CCF

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
CCF													
Claggett Middle	89	42	23	80	71	69	108	73	16	16	109	120	816
Garfield Elementary	110	53	49	87	85	78	119	68	10	15	105	133	912
Total CCF	199	95	72	167	156	147	227	141	26	31	214	253	1,728

Water Actual Performance Year Cost \$

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
Cost \$													
Claggett Middle	\$326	\$200	\$142	\$302	\$278	\$272	\$377	\$291	\$121	\$121	\$392	\$423	\$3,245
Garfield Elementary	\$383	\$229	\$218	\$321	\$315	\$297	\$407	\$278	\$101	\$118	\$381	\$459	\$3,506
Total Cost \$	709	429	360	623	593	569	784	569	222	239	773	881	6,751

Water Actual Performance Year Unit Cost \$/CCF

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	
Cost \$/CCF													
Claggett Middle	\$3.66	\$4.75	\$6.16	\$3.77	\$3.91	\$3.95	\$3.49	\$3.99	\$7.58	\$7.58	\$3.60	\$3.52	
Garfield Elementary	\$3.48	\$4.33	\$0.00	\$3.69	\$3.71	\$3.80	\$3.42	\$4.08	\$10.10	\$7.86	\$3.63	\$3.45	

Medina City Schools ~ Performance Year 12

Water/Sewer Savings

Water Baseline Units CCF

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
CCF													
Claggett Middle	187	146	140	120	154	152	158	159	134	58	69	102	1,579
Garfield Elementary	250	175	175	156	203	175	182	181	196	112	128	164	2,097
Total CCF	437	321	315	276	357	327	340	340	330	170	197	266	3,676

Water Savings or (Shortfall) CCF

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
CCF													
Claggett Middle	98	104	117	40	83	83	50	86	118	42	(40)	(18)	763
Garfield Elementary	140	122	126	69	118	97	63	113	186	97	23	31	1,185
Savings CCF	238	226	243	109	201	180	113	199	304	139	-17	13	1,948

Water Savings or (Shortfall) \$

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
\$													
Claggett Middle	\$359	\$494	\$721	\$151	\$325	\$328	\$175	\$343	\$894	\$318	(\$144)	(\$63)	\$3,901
Garfield Elementary	\$487	\$528	\$0	\$254	\$438	\$369	\$215	\$461	\$1,878	\$762	\$83	\$107	\$5,582
Savings \$	846	1,022	721	405	762	696	390	805	2,772	1,080	-60	44	9,483

Medina City Schools ~ Performance Year 12

Water/Sewer Savings

Sewer Base Year "Units"

	October	November	December	January	February	March	April	May	June	July	August	September	Total
"Units"													
Claggett Middle	0	127	0	127	0	127	0	127	0	127	0	127	760
Garfield Elementary	0	43	0	43	0	43	0	43	0	43	0	43	257
Total "Units"	0	169	0	169	0	169	0	169	0	169	0	169	1,017

Sewer Base Year Cost \$

	October	November	December	January	February	March	April	May	June	July	August	September	Total
Cost \$													
Claggett Middle	\$0	\$2,817	\$0	\$2,817	\$0	\$2,817	\$0	\$2,817	\$0	\$2,817	\$0	\$2,817	\$16,900
Garfield Elementary	\$0	\$954	\$0	\$954	\$0	\$954	\$0	\$954	\$0	\$954	\$0	\$954	\$5,727
Total Cost \$	0	3,771	0	3,771	0	3,771	0	3,771	0	3,771	0	3,771	22,627

Sewer Base Year Unit Cost \$/"Unit"

	October	November	December	January	February	March	April	May	June	July	August	September	
Cost \$/"Unit"													
Claggett Middle		\$22.25		\$22.25		\$22.25		\$22.25		\$22.25		\$22.25	
Garfield Elementary		\$22.25		\$22.25		\$22.25		\$22.25		\$22.25		\$22.25	

Medina City Schools ~ Performance Year 12

Water/Sewer Savings

Sewer Actual Performance Year "Units"

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
"Units"													
Claggett Middle	0	30	0	30	0	30	0	17	0	17	0	17	141
Garfield Elementary	0	38	0	38	0	38	0	20	0	20	0	20	173
Total "Units"	0	68	0	68	0	68	0	37	0	37	0	37	314

Sewer Actual Performance Year Cost \$

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
Cost \$													
Claggett Middle	\$0	\$885	\$0	\$885	\$0	\$885	\$0	\$499	\$0	\$499	\$0	\$499	\$4,151
Garfield Elementary	\$0	\$1,100	\$0	\$1,100	\$0	\$1,100	\$0	\$597	\$0	\$597	\$0	\$597	\$5,091
Total Cost \$	0	1,984	0	1,984	0	1,984	0	1,096	0	1,096	0	1,096	9,242

Sewer Actual Performance Year Unit Cost \$/"Unit"

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	
Cost \$/"Unit"													
Claggett Middle	\$0.00	\$29.25	\$0.00	\$29.25	\$0.00	\$29.25	\$0.00	\$29.75	\$0.00	\$29.75	\$0.00	\$29.75	
Garfield Elementary	\$0.00	\$29.25	\$0.00	\$29.25	\$0.00	\$29.25	\$0.00	\$29.75	\$0.00	\$29.75	\$0.00	\$29.75	

Medina City Schools ~ Performance Year 12

Water/Sewer Savings

Sewer Baseline "Units"

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
"Units"													
Claggett Middle	0	127	0	127	0	127	0	127	0	127	0	127	760
Garfield Elementary	0	43	0	43	0	43	0	43	0	43	0	43	257
Total "Units"	0	169	0	169	0	169	0	169	0	169	0	169	1,017

Sewer Savings or (Shortfall) "Units"

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
"Units"													
Claggett Middle	0	96	0	96	0	96	0	110	0	110	0	110	618
Garfield Elementary	0	5	0	5	0	5	0	23	0	23	0	23	84
Savings "Units"	0	102	0	102	0	102	0	133	0	133	0	133	703

Sewer Savings or (Shortfall) \$

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Total
\$													
Claggett Middle	\$0	\$2,818	\$0	\$2,818	\$0	\$2,818	\$0	\$3,267	\$0	\$3,267	\$0	\$3,267	\$18,256
Garfield Elementary	\$0	\$155	\$0	\$155	\$0	\$155	\$0	\$679	\$0	\$679	\$0	\$679	\$2,502
Savings \$	0	2,973	0	2,973	0	2,973	0	3,946	0	3,946	0	3,946	20,757

Appendix B – Lighting M&V Data

Lighting M & V Savings Summary

Building	Area	Projected Savings ¹				Actual Savings ²				Excess or (Shortfall)					
		Electricity		Natural Gas		Electricity		Natural Gas		Electricity		Natural Gas			
		KWH	\$	MCF	\$	KWH	\$	MCF	\$	KWH	\$	MCF	\$	\$	%
Blake Elementary	Interior	77,496	9,887	(44)	(232)	95,539	11,942	(51)	(264)	18,043	\$2,255	(6)	(\$32)	123.5%	
	Exterior	15,200	1,900			14,979	1,872			(221)	(\$28)	0	\$0	98.5%	
	Total	92,696	\$11,587	(44)	(\$232)	110,518	\$13,815	(51)	(\$264)	17,822	\$2,228	(6)	(\$32)	119.3%	
Board Office	Interior	18,525	2,186	(8)	(53)	21,481	2,535	(11)	(74)	2,955	\$349	(3)	(\$21)	115.4%	
	Exterior	11,771	1,389			10,177	1,201			(1,594)	(\$188)	0	\$0	86.5%	
	Total	30,297	\$3,575	(8)	(\$53)	31,658	\$3,736	(11)	(\$74)	1,362	\$161	(3)	(\$21)	104.0%	
Bus Garage	Interior	16,305	2,136	(13)	(91)	25,503	3,341	(14)	(101)	9,197	\$1,205	(1)	(\$10)	158.4%	
	Exterior	45,542	5,966			32,630	4,275			(12,912)	(\$1,691)	0	\$0	71.6%	
	Total	61,847	\$8,102	(13)	(\$91)	58,133	\$7,615	(14)	(\$101)	(3,714)	(\$487)	(1)	(\$10)	93.8%	
Claggett Middle School	Interior	108,348	12,460	(61)	(430)	98,533	11,331	(52)	(367)	(9,815)	(\$1,129)	9	\$63	91.1%	
	Exterior	6,357	731			7,884	907			1,527	\$176	0	\$0	124.0%	
	Total	114,704	\$13,191	(61)	(\$430)	106,417	\$12,238	(52)	(\$367)	(8,288)	(\$953)	9	\$63	93.0%	
Ella Canavan Elementary	Interior	54,744	7,686	(29)	(204)	53,598	7,525	(28)	(200)	(1,146)	(\$161)	1	\$4	97.9%	
	Exterior	12,863	1,806			19,803	2,780			6,940	\$974	0	\$0	153.9%	
	Total	67,607	\$9,492	(29)	(\$204)	73,400	\$10,305	(28)	(\$200)	5,794	\$813	1	\$4	108.8%	
Fenn Elementary	Interior	30,377	3,463	(16)	(80)	30,177	3,440	(16)	(78)	(200)	(\$23)	1	\$2	99.4%	
	Exterior	5,482	625			5,891	672			408	\$47	0	\$0	107.4%	
	Total	35,860	\$4,088	(16)	(\$80)	36,067	\$4,112	(16)	(\$78)	208	\$24	1	\$2	100.7%	
Garfield Elementary	Interior	52,443	6,031	(28)	(138)	55,741	6,410	(30)	(144)	3,297	\$379	(1)	(\$6)	106.3%	
	Exterior	2,478	285			2,436	280			(43)	(\$5)	0	\$0	98.3%	
	Total	54,922	\$6,316	(28)	(\$138)	58,176	\$6,690	(30)	(\$144)	3,254	\$374	(1)	(\$6)	106.0%	
Heritage Elementary	Interior	59,316	6,940	(32)	(225)	61,804	7,231	(33)	(230)	2,488	\$291	(1)	(\$5)	104.3%	
	Exterior	4,342	508			4,076	477			(265)	(\$31)	0	\$0	93.9%	
	Total	63,658	\$7,448	(32)	(\$225)	65,881	\$7,708	(33)	(\$230)	2,222	\$260	(1)	(\$5)	103.5%	
Medina High School	Interior	341,596	32,110	(182)	(762)	277,417	26,077	(147)	(616)	(64,179)	(\$6,033)	35	\$146	81.2%	
	Exterior	263,989	24,815			305,559	28,722			41,569	\$3,907	0	\$0	115.7%	
	Total	605,585	\$56,925	(182)	(\$762)	582,975	\$54,800	(147)	(\$616)	(22,610)	(\$2,125)	35	\$146	96.5%	
Recreation Center Pools and Fieldhouse	Interior	93,085	8,750	(50)	(208)	163,635	15,382	(87)	(363)	70,550	\$6,632	(37)	(\$155)	175.8%	
	Exterior														
	Total	93,085	\$8,750	(50)	(\$208)	163,635	\$15,382	(87)	(\$363)	70,550	\$6,632	(37)	(\$155)	175.8%	
H.S. Hallway Downlights	Interior	83,851	7,882	(45)	(187)	69,738	6,555	(37)	(155)	(14,113)	(\$1,327)	8	\$32	83.2%	
	Exterior														
	Total	83,851	\$7,882	(45)	(\$187)	69,738	\$6,555	(37)	(\$155)	(14,113)	(\$1,327)	8	\$32	83.2%	
Maintenance Shop	Interior	16,110	1,756	(10)	(71)	14,958	1,630	(8)	(56)	(1,152)	(\$126)	2	\$15	93.4%	
	Exterior	2,220	242			1,499	163			(721)	(\$79)	0	\$0	67.5%	
	Total	18,330	\$1,998	(10)	(\$71)	16,458	\$1,794	(8)	(\$56)	(1,873)	(\$204)	2	\$15	90.2%	
Northrop Elementary	Interior	69,411	10,134	(38)	(244)	80,294	11,723	(43)	(276)	10,883	\$1,589	(5)	(\$32)	115.7%	
	Exterior	31,986	4,670			35,350	5,161			3,363	\$491	0	\$0	110.5%	
	Total	101,397	\$14,804	(38)	(\$244)	115,643	\$16,884	(43)	(\$276)	14,246	\$2,080	(5)	(\$32)	114.1%	
Root Middle School	Interior	148,977	19,814	(82)	(398)	147,811	19,659	(78)	(381)	(1,166)	(\$155)	3	\$17	99.3%	
	Exterior	36,677	4,878			36,626	4,871			(51)	(\$7)	0	\$0	99.9%	
	Total	185,654	\$24,692	(82)	(\$398)	184,437	\$24,530	(78)	(\$381)	(1,217)	(\$162)	3	\$17	99.4%	
Waite Elementary	Interior	68,939	10,134	(38)	(244)	69,040	10,149	(37)	(238)	101	\$15	1	\$6	100.2%	
	Exterior	32,027	4,708			36,138	5,312			4,110	\$604	0	\$0	112.8%	
	Total	100,966	\$14,842	(38)	(\$244)	105,178	\$15,461	(37)	(\$238)	\$619	\$1	\$6	\$6	104.3%	
Added Exterior Lighting Scope	Interior														
	Exterior					31,114	\$2,909			31,114	\$2,909				
	Total	0	\$0	0	\$0	31,114	\$2,909	0	\$0	31,114	\$2,909				
All Buildings	TOTAL	Projected Savings ¹				Actual Savings ²				Excess or (Shortfall)					
		Electricity		Natural Gas		Electricity		Natural Gas		Electricity		Natural Gas			
		KWH	\$	MCF	\$	KWH	\$	MCF	\$	KWH	\$	MCF	\$	\$	%
		1,710,460	\$193,692	-676	-3,567	1,809,428	\$204,534	-671	-3,543	98,968	\$10,842	4	\$24	105.7%	