

City of Grand Ledge

WATER RATE CALCULATION REPORT

MARCH 2021'



Prepared By:

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YOUR RATE EVALUATION SHOULD BE REVIEWED BY A CERTIFIED FINANCIAL PLANNER AND YOUR ATTORNEY

BACKGROUND / STARTING INFORMATION

Name of Community :	Grand Ledge Sewer
Population Served :	7802
BUDGET FOR FISCAL YEARS <u>STARTING</u> YEAR OF	2021
Current Rate Structure	
Are bills based on 1,000 gallons units or 100 cubic feet units?	1,000
Number of Residential Customer Invoices per Year	12
What are the dates of the Fiscal Year	7/1-6/30
Year of Last Rate Increase	9.00%
<i>This rate evaluation was completed using the following information</i>	
System Evaluations (MDEQ etc)	
List the names of the different Entities Served - Originating Entity	Grand Ledge Sewer
2nd Entity	Oneida Twp Sewer

Grand Ledge Sewer				
CURRENT RATE CHARGES & NUMBER OF CUSTOMERS				
Customers Are Invoiced MONTHLY PER				
RATE CLASS 1				
Grand Ledge Sewer				
TYPE OF WATER UNITS	1,000 GALLONS	UNDER 4,000 GALLONS PER MONTH - DOES NOT INCLUDE SPRINKLER ACCOUNTS		
COST PER WATER UNIT	\$9.24			
INVOICES PER YEAR	12			
METER SIZE IN INCHES	CURRENT "BASE RATE" CHARGE	NUMBER OF METERS / REU'S	INVOICE FREQUENCY	ANNUAL INCOME
3/4	\$8.30	2789	12	\$277,784
1	\$8.30	37	12	\$3,685
1 1/2	\$8.30	32	12	\$3,187
2	\$8.30	36	12	\$3,586
3	\$8.30	6	12	\$598
4	\$8.30	3	12	\$299
6	\$8.30	1	12	\$100
8	\$8.30		12	\$0
TOTALS		2904		\$289,238

RATE CLASS 2					
Oneida Twp Sewer					
TYPE OF WATER UNITS	1,000 GALLONS	Ratio Entity # 2 vs. 1	THESE ARE GALLONS OF WATER OVER 4,000 GALLONS PER MONTH		
COST PER WATER UNIT	\$9.24	1.00			
INVOICES PER YEAR	12				
METER SIZE IN INCHES	CURRENT "BASE RATE" CHARGE	Ratio Entity # 2 vs. 1	NUMBER OF METERS / REU'S	INVOICE FREQUENCY	ANNUAL INCOME
3/4	\$8.30	1.00	420	12	\$41,832
1	\$8.30		16	12	\$1,594
1 1/2	\$8.30		0	12	\$0
2	\$8.30		1	12	\$100
3	\$8.30		1	12	\$100
4	\$8.30		0	12	\$0
6	\$8.30		0	12	\$0
8	\$8.30		0	12	\$0
\$0			438		\$43,625

NOTES
Current Rate Charges

Currently customers are charged based on two factors

Consumption Charge, Which is based on gallons of water that goes through the customer's water meter. Sewage usage is based on water usage. Customers are currently invoiced per unit of water / sewer at the listed price.

A monthly "Ready to Serve" charge which is based on the size of the customers water meter, which is listed in inches. Customers are invoiced on a monthly basis. The number of meters listed above does NOT include irrigation meters.

MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

REU EQUIVALENTS PER METER SIZE

100%

2021 YEAR 1	RATE CLASS 1	RATE CLASS 2							NEW RATES
	Grand Ledge Sewer	Oneida Twp Sewer							Grand Ledge Sewer
METER SIZE IN INCHES	NUMBER OF METERS / REU'S	NUMBER OF METERS / REU'S	TOTAL CUSTOMERS ALL ENTITIES	<u>EQUIVALENT</u> METERS / REU'S - BASED ON RATES	SELECTED METER EQUIVALENT	CALCULATED METER EQUIVALENT USED	EQUIVALENT REU'S PER BILLING CYCLE	ANNUAL EQUIVALENT REU'S (UNITS)	ORIGINAL ENTITY 1
3/4	2789	420	3209	3,209	1.00	1.00	3,209	38,508	\$12.14
1	37	16	53	53	2.50	2.50	133	1,590	\$30.37
1 1/2	32	0	32	32	5.00	5.00	160	1,920	\$60.72
2	36	1	37	37	8.00	8.00	296	3,552	\$97.16
3	6	1	7	7	16.00	16.00	112	1,344	\$194.31
4	3	0	3	3	25.00	25.00	75	900	\$303.61
6	1	0	1	1	50.00	50.00	50	600	\$607.22
8	0	0	0	0	100.00	100.00			\$1,214.44
TOTAL	2904	438	3342	3342			4,035		
TOTAL <u>EQUIVALENT</u> ANNUAL REU'S								48,414	
PERCENT REDUCTION OR INCREASE								0.00%	
REU REDUCTION PER BILLING CYCLE								0.0	
ANNUAL <u>EQUIVALENT</u> REU'S USED FOR RATE EVALUATION								48,414	

The table above list the number of water meters being invoiced for each size water meter, for each entity being served. It then calculates the annual equivalent REU's

Grand Ledge Sewer		2021					UNITS OF WATER INVOICED TO CUSTOMER FOR THIS EVALUATION WE WILL USE THE LOWEST					BY DEFAULT THE PROGRAM USES THE LOWEST YEAR
USAGE REPORTED IN		GALLONS										
USAGE REPORTED IN		FISCAL YEARS										
FISCAL YEAR ENDING IN YEAR OF												
	2016	2017	2018	2019	2020	PERCENT OF TOTAL	AVERAGE	MAX. YEAR	MIN. YEAR	PERCENT DIFFERENCE FROM MAX. TO MIN. YEAR	ANTICIPATED PERCENT REDUCTION NEXT YEAR	UNITS USED IN RATE EVALUATION
Grand Ledge Sewer	202,878,859	195,688,215	190,910,300	205,049,700	188,092,700	100.0%	196,523,955	205,049,700	188,092,700	8%	0%	193,000,000
Oneida Twp Sewer						0.0%						
TOTALS	202,878,859	195,688,215	190,910,300	205,049,700	188,092,700		196,523,955	205,049,700	188,092,700	8%		193,000,000
		1808159.107	1764011.172	1894659.228	1737976.548							
GALLONS OF REDUCTION												
GALLONS USED FOR EVALUATION												193,000,000

TOTAL COMBINED <u>CURRENT</u> INCOME					1,000	Grand Ledge Sewer		
FISCAL YEAR 2020					12			
CURRENT METER / BASE RATE INCOME								
				Grand Ledge Sewer	Oneida Twp Sewer			
METER SIZE IN INCHES	CURRENT RATES	NUMBER OF METERS / REU'S	INVOICE FREQUENCY	ANNUAL INCOME	ANNUAL INCOME	INCOME	% INCOME	% TOTAL INCOME
3/4	\$8.30	2,789	12	277,784	\$41,832	\$319,616	96%	15%
1	\$8.30	37	12	3,685	\$1,594	\$5,279	2%	0%
1 1/2	\$8.30	32	12	3,187	\$0	\$3,187	1%	0%
2	\$8.30	36	12	3,586	\$100	\$3,685	1%	0%
3	\$8.30	6	12	598	\$100	\$697	0%	0%
4	\$8.30	3	12	299	\$0	\$299	0%	0%
6	\$8.30	1	12	100	\$0	\$100	0%	0%
8	\$8.30	0	12	0	\$0	\$0	0%	0%
BASE RATE INCOME				\$289,238	\$43,625	\$332,863		16%
CURRENT VOLUME SALES INCOME								
		Grand Ledge Sewer		Oneida Twp Sewer		TOTALS		
GALLONS / CUFT SOLD	188,092,700			0		188,092,700		
COST PER UNIT	\$9.24			\$9.24			% INCOME	
WATER SALES INCOME	\$1,737,977			\$0		\$1,737,977		84%
TOTAL METER SALES INCOME				\$332,863				
TOTAL VOLUME SALES INCOME				\$1,737,977				
TOTAL INCOME CUSTOMER SALES				\$2,070,840				
"NON OPERATING" INCOME REDUCTION CONTRIBUTION				\$15,000				
TOTAL INCOME ALL SOURCES				\$2,085,840				
NEW INPUTTED RATE BUDGET				\$2,356,136				
SCHEDULED / ANTICIPATED PROFIT / LOSS AT CURRENT RATE STRUCTURE				(\$270,297)				
						PERCENT OF INCOME		
						BASE RATE	VOLUME SALES	
						16%	84%	

This page has no influence on the rate calculation.
This page calculates your current income. It is used as a checks and balances page. Ideally the calculated current income on this page should be relatively close to your actual reported income last year when these rates were / are in place.
If this income does not come close to your income it means the data you entered into the program - number of customers, gallons of water are

Grand Ledge Sewer				MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM						
				YEAR 2	YEAR 3	YEAR 4	YEAR 5			
NON-SALES & OTHER REVENUE	FY 2019 ACTUALS	FY 2020 ACTUALS	FY 2021 Budget	2022	2023	2024	2025	2026		
628.000 OPERATIONAL REVENUES	\$17,265	\$2,278	\$500	\$500	\$510	\$520	\$531	\$541		
Insurance Dividends	\$0	\$1,878	\$0	\$0	\$0	\$0	\$0	\$0		
635.001 EQUIPMENT RENTAL	\$45	\$0	\$8,410	\$0	\$0	\$0	\$0	\$0		
635.003 REIMBURSEMENT FOR SALARIES	\$1,101	\$0	\$565	\$0	\$0	\$0	\$0	\$0		
635.004 REIMBURSEMENT FOR FRINGE BENFT	\$522	\$0	\$75	\$0	\$0	\$0	\$0	\$0		
635.007 REIMBURSE FOR OPERATING SUPPLY	\$375	\$300	\$2,025	\$300	\$306	\$312	\$318	\$325		
635.008 REIMBURSE MAINT SUPPLY-SEWER	\$375	\$0	\$500	\$0	\$0	\$0	\$0	\$0		
651.003 MISC SEWER SALES	\$423	\$0	\$250	\$0	\$0	\$0	\$0	\$0		
651.004 SEWER CAPITAL INVESTMENT FEES	\$7,421	\$1,900	\$10,000	\$1,900	\$1,938	\$1,977	\$2,016	\$2,057		
651.007 SEWER SEPARATION AMORTIZATION FEE	\$36,000	\$708,200	\$40,000	\$36,000	\$36,720	\$37,454	\$38,203	\$38,968		
651.008 SEWER TAP FEES	\$19,720	\$145,300	\$50,000	\$19,720	\$20,114	\$20,517	\$20,927	\$21,346		
673.000 SALE OF FIXED ASSETS	-\$27,967	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
TOTAL INCOME (NON SALES)	\$55,280	\$859,856	\$112,325	\$58,420	\$59,588	\$60,780	\$61,996	\$63,236		
AVERAGE NON SALES INCOME				\$457,568	\$342,487	\$271,470	\$272,547	\$72,778	\$60,196	\$61,400
Portion of (Non Sales) Revenue Guaranteed :				\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	
Percent Applied Towards Fixed Rate RTS Charge - PERCENT applied per REU				0%	0%	0%	0%	0%		
ANNUAL DOLLARS APPLIED TOWARDS FIXED BUDGET - BASE RATE - RTS				\$0	\$0	\$0	\$0	\$0		
TOTAL ANNUAL RESIDENTIAL EQUIVALENT UNITS "REU'S"				48,414	48,414	48,414	48,414	48,414		
REDUCTION PER REU PER BILLING PERIOD				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
ANNUAL DOLLARS APPLIED TOWARDS VARIABLE BUDGET - PER UNIT				\$15,000	\$15,000	\$15,000	\$15,000	\$15,000		
ANNUAL UNITS OF WATER OR SEWER INVOICED				193,000	193,000	193,000	193,000			
REDUCTION PER UNIT OF WATER OR SEWER				\$0.08	\$0.08	\$0.08	\$0.08			

A portion of this revenue will be re-applied back to the water budget to help lower the water rates.

PRIOR YEAR ACTUALS EXPENSES (COMPARISON PURPOSES ONLY)	PRIOR YEAR ACTUALS EXPENSES (COMPARISON PURPOSES ONLY)	PRIOR YEAR ACTUALS EXPENSES (COMPARISON PURPOSES ONLY)	MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM	YEAR 2	YEAR 3	YEAR 4	YEAR 5	
YEAR OF	YEAR OF	YEAR OF	Grand Ledge Sewer	PROPOSED BUDGET FOR FISCAL YEAR	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	
FY 2019 ACTUALS	FY 2020 ACTUALS	FY 2021 Budget	ANNUAL PERCENT INCREASE	2.00%	2.00%	2.00%	2.00%	
			Dept.: 592.536 PLANT OPERATION & MAINTENANCE	2021	2022	2023	2024	2025
\$223,725	\$216,284	\$214,623	703.000 SALARIES/WAGES	\$219,019	\$223,399	\$227,867	\$232,425	\$237,073
					\$0	\$0	\$0	\$0
\$6,446	\$9,049	\$11,443	703.100 OVERTIME	\$12,011	\$12,251	\$12,496	\$12,746	\$13,001
					\$0	\$0	\$0	\$0
\$117,182	\$111,733	\$110,960	719.000 FRINGE BENEFITS	\$108,371	\$110,538	\$112,749	\$115,004	\$117,304
					\$0	\$0	\$0	\$0
\$44,774	\$42,585	\$42,500	776.000 MAINTENANCE SUPPLIES	\$42,500	\$43,350	\$44,217	\$45,101	\$46,003
					\$0	\$0	\$0	\$0
\$53,768	\$44,991	\$55,000	777.000 CHEMICALS	\$55,000	\$56,100	\$57,222	\$58,366	\$59,534
					\$0	\$0	\$0	\$0
\$68,530	\$74,040	\$80,000	811.000 CONTRACTUAL	\$80,000	\$81,600	\$83,232	\$84,897	\$86,595
					\$0	\$0	\$0	\$0
\$106,536	\$115,865	\$105,000	921.000 UTILITIES	\$105,000	\$107,100	\$109,242	\$111,427	\$113,655
					\$0	\$0	\$0	\$0
\$479	\$6,307	\$9,500	930.000 GROUNDS MAINTENANCE	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495
					\$0	\$0	\$0	\$0
\$75,016	\$14,922	\$35,000	931.000 BUILDING MAINTENANCE	\$25,000	\$25,500	\$26,010	\$26,530	\$27,061
					\$0	\$0	\$0	\$0
\$551	\$2,976	\$7,500	932.000 VEHICLE MAINTENANCE	\$7,500	\$7,650	\$7,803	\$7,959	\$8,118
					\$0	\$0	\$0	\$0
\$3,228	\$833	\$4,000	936.000 STRUCTURE MAINTENANCE	\$4,000	\$4,080	\$4,162	\$4,245	\$4,330
					\$0	\$0	\$0	\$0
\$16,746	\$27,794	\$30,000	937.000 EQUIPMENT MAINTENANCE	\$30,000	\$30,600	\$31,212	\$31,836	\$32,473
					\$0	\$0	\$0	\$0
\$2,000	\$2,000	\$2,500	999.208 TRANSFER TO PARKS AND REC	\$2,500	\$2,550	\$2,601	\$2,653	\$2,706
\$718,981	\$669,379	\$708,026	Dept.: 592.536 PLANT OPERATION & MAINTENANCE	\$696,901	\$710,839	\$725,056	\$739,557	\$754,348

PRIOR YEAR ACTUALS EXPENSES (COMPARISON PURPOSES ONLY)	PRIOR YEAR ACTUALS EXPENSES (COMPARISON PURPOSES ONLY)	PRIOR YEAR ACTUALS EXPENSES (COMPARISON PURPOSES ONLY)	MICHIGAN RURAL WATER ASSOCIATION RATE	EVALUATION PERIOD	YEAR 2	YEAR 3	YEAR 4	YEAR 5
			Grand Ledge Sewer	PROPOSED BUDGET FOR FISCAL YEAR	NEW BUDGET FOR YEAR	NEW BUDGET FOR YEAR	NEW BUDGET FOR YEAR	NEW BUDGET FOR YEAR
YEAR OF	YEAR OF	YEAR OF	ANNUAL PERCENT INCREASE		2.00%	2.00%	2.00%	2.00%
FY 2019 ACTUALS	FY 2020 ACTUALS	FY 2021 Budget	Dept.: 592.538 LIFT STATION	2021	2022	2023	2024	2025
\$9,161	\$10,796	\$15,142	703.000 SALARIES/WAGES	\$15,998	\$16,318	\$16,644	\$16,977	\$17,317
\$866	\$1,881	\$2,138	703.100 OVERTIME	\$2,263	\$2,308	\$2,354	\$2,402	\$2,450
\$4,926	\$5,601	\$7,828	719.000 FRINGE BENEFITS	\$8,880	\$9,058	\$9,239	\$9,424	\$9,612
\$9,531	\$2,259	\$6,000	776.000 MAINTENANCE SUPPLIES	\$6,000	\$6,120	\$6,242	\$6,367	\$6,495
\$18,624	\$23,555	\$21,000	921.000 UTILITIES	\$21,000	\$21,420	\$21,848	\$22,285	\$22,731
\$3,875	\$2,795	\$3,500	936.000 STRUCTURE MAINTENANCE	\$3,500	\$3,570	\$3,641	\$3,714	\$3,789
\$6,263	\$11,477	\$12,500	937.000 EQUIPMENT MAINTENANCE	\$12,500	\$12,750	\$13,005	\$13,265	\$13,530
\$9,715	\$16,883	\$35,000	977.000 EQUIPMENT - On replacement schedule	\$35,000	\$35,700	\$36,414	\$37,142	\$37,885
\$62,962	\$75,247	\$103,108	Dept.: 592.538 LIFT STATION	\$105,141	\$107,244	\$109,389	\$111,577	\$113,808

ACTUALS EXPENSES FROM PREVIOUS YEARS			MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM	PROPOSED BUDGET FOR FISCAL YEAR	YEAR 2	YEAR 3	YEAR 4	YEAR 5
YEAR OF	YEAR OF	YEAR OF	Grand Ledge Sewer		NEW BUDGET FOR YEAR	NEW BUDGET FOR YEAR	NEW BUDGET FOR YEAR	NEW BUDGET FOR YEAR
				ANNUAL PERCENT INCREASE	2.00%	2.00%	2.00%	2.00%
FY 2019 ACTUALS	FY 2020 ACTUALS	FY 2021 Budget	Dept.: 592.539 SEWERS	2021	2022	2023	2024	2025
\$50,437	\$72,960	\$130,902	703.000 SALARIES/WAGES	\$140,823	\$143,639	\$146,512	\$149,442	\$152,431
\$397	\$1,486	\$1,771	703.100 OVERTIME	\$2,436	\$2,485	\$2,534	\$2,585	\$2,637
\$25,965	\$37,076	\$67,676	719.000 FRINGE BENEFITS	\$67,888	\$69,246	\$70,631	\$72,043	\$73,484
\$11,100	\$22,621	\$11,400	776.000 MAINTENANCE SUPPLIES	\$19,013	\$19,393	\$19,781	\$20,177	\$20,580
\$21,219	\$55,111	\$104,681	811.000 CONTRACTUAL	\$44,681	\$45,575	\$46,486	\$47,416	\$48,364
\$566	\$149	\$2,500	936.000 STRUCTURE MAINTENANCE	\$2,500	\$2,550	\$2,601	\$2,653	\$2,706
\$31,381	\$13,413	\$15,000	937.000 EQUIPMENT MAINTENANCE	\$15,000	\$15,300	\$15,606	\$15,918	\$16,236
\$141,065	\$202,816	\$333,930	Dept.: 592.539 SEWERS	\$292,341	\$298,188	\$304,151	\$310,234	\$316,439

ACTUALS EXPENSES FROM PREVIOUS YEARS (COMPARISON PURPOSES ONLY)			MICHIGAN RURAL WATER ASSOCIATION Grand Ledge Sewer	PROPOSED BUDGET FOR FISCAL YEAR	EVALUATION PROGRAM YEAR 2	YEAR 3	YEAR 4	YEAR 5
YEAR OF	YEAR OF	YEAR OF			NEW BUDGET FOR YEAR	NEW BUDGET FOR YEAR	NEW BUDGET FOR YEAR	NEW BUDGET FOR YEAR
FY 2019 ACTUALS	FY 2020 ACTUALS	FY 2021 Budget	Dept.: 592.542 SEWER GENERAL EXPENSE	2021	2022	2023	2024	2025
\$19,037	\$20,626	\$30,737	703.000 SALARIES/WAGES	\$34,258	\$34,943	\$35,642	\$36,355	\$37,082
\$0	\$0	\$304	703.100 OVERTIME	\$329	\$336	\$342	\$349	\$356
\$9,830	\$10,555	\$15,891	719.000 FRINGE BENEFITS	\$17,092	\$17,434	\$17,783	\$18,139	\$18,501
\$1,225	\$4,193	\$3,000	726.000 PERSONNEL ADMINISTRATION	\$3,000	\$3,060	\$3,121	\$3,184	\$3,247
\$4,504	\$1,564	\$3,500	728.000 OFFICE SUPPLIES	\$3,500	\$3,570	\$3,641	\$3,714	\$3,789
\$9,577	\$4,632	\$7,500	728.001 POSTAGE	\$7,500	\$7,650	\$7,803	\$7,959	\$8,118
\$1,823	\$1,456	\$3,300	744.000 UNIFORMS	\$3,300	\$3,366	\$3,433	\$3,502	\$3,572
\$46,791	\$54,399	\$29,127	801.000 ENGINEERING	\$29,127	\$29,710	\$30,304	\$30,910	\$31,528
\$2,164	\$132	\$2,000	802.000 LEGAL FEES - subtract 1 time costs	\$5,000	\$5,100	\$5,202	\$5,306	\$5,412
\$7,715	\$5,760	\$4,000	802.010 LABOR ATTORNEY	\$8,000	\$8,160	\$8,323	\$8,490	\$8,659
\$782	\$759	\$800	803.000 TRASH REMOVAL	\$800	\$816	\$832	\$849	\$866
\$6,277	\$685	\$58,550	811.001 CONTRACTUAL - COMPUTER	\$10,000	\$10,200	\$10,404	\$10,612	\$10,824
\$5,464	\$8,461	\$9,500	811.003 MDEQ FEES	\$11,000	\$11,000	\$11,220	\$11,444	\$11,673
\$4,235	\$4,109	\$4,000	824.000 TRAINING	\$4,000	\$4,000	\$4,080	\$4,162	\$4,245
\$17,247	\$16,575	\$17,397	840.000 INSURANCE	\$17,397	\$17,397	\$17,745	\$18,100	\$18,462
\$8,456	\$9,749	\$8,216	TELEPHONE/INTERNET	\$8,216	\$8,216	\$8,380	\$8,548	\$8,719
\$2,842	\$2,678	\$1,500	PRINTING/PUBLISHING	\$2,500	\$2,500	\$2,550	\$2,601	\$2,653
\$343	\$6,890	\$6,500	940.000 EQUIPMENT RENTAL	\$24,000	\$24,000	\$24,480	\$24,970	\$25,469
\$3,434	(\$9,898)	\$0	957.000 OPERATIONAL EXPENSE	\$0	\$0	\$0	\$0	\$0
\$67,976	\$0	\$0	978.000 PLANT EQUIP REPLACEMENT - on asset schedule	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	981.001 VEHICLE REPLACEMENT on asset schedule	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	991.000 DEBT-PRINCIPAL on debt schedule	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	995.000 DEBT-INTEREST on debt schedule	\$0	\$0	\$0	\$0	\$0
\$145,001	\$147,070	\$152,403	997.101 INDIRECT COST CHARGES	\$157,623	\$160,775	\$163,990	\$167,270	\$170,616
\$63	\$63	\$150	998.000 DEBT-PAYING AGENT FEES	\$150	\$153	\$156	\$159	\$162
\$364,783	\$290,458	\$358,375	Dept.: 592.542 SEWER GENERAL EXPENSE	\$346,792	\$352,385	\$359,433	\$366,622	\$373,954

Grand Ledge Sewer

2021

DEBT SCHEDULE - ANNUAL PAYMENTS PRINCIPAL & INTEREST

	FISCAL YEAR STARTING	1 2021	2 2022	3 2023	4 2024	5 2025	6 2026	7 2027	8 2028	9 2029	10 2030
2014 Refunded complete 2025		\$217,882	\$217,882	\$217,882	\$217,882	\$217,882					
ESTIMATED COST PER REU	\$4.50	\$4.50	\$4.50	\$4.50	\$4.50	\$4.50					
DATE OF ISSUE	2004	NOTES AVERAGE ANNUAL \$217,882									
DATE OF MATURITY	2025										
PAID BY RATES	YES										
RESERVE REQUIREMENT	No										
2019 Capital Improvement Bonds		\$146,978	\$146,978	\$146,978	\$146,978	\$146,978	\$146,978	\$146,978	\$146,978	\$146,978	\$146,978
ESTIMATED COST PER REU	\$3.04	\$3.04	\$3.04	\$3.04	\$3.04	\$3.04					
DATE OF ISSUE	2020										
DATE OF MATURITY	2035										
PAID BY RATES	Yes										
RESERVE REQUIREMENT	no										
2009 Bonds		\$223,102	\$223,102	\$223,102	\$223,102	\$223,102	\$223,102	\$223,102	\$223,102	\$223,102	\$223,102
COST PER REU	\$4.61	\$4.61	\$4.61	\$4.61	\$4.61	\$4.61					
DATE OF ISSUE	2009										
DATE OF MATURITY	2030										
PAID BY RATES	Yes										
RESERVE REQUIREMENT	No										
TOTAL CURRENT ANNUAL DEBT PAYMENTS		\$587,962	\$587,962	\$587,962	\$587,962	\$587,962	\$370,080	\$370,080	\$370,080	\$370,080	\$370,080
USDA RESERVE REQUIREMENTS		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL CURRENT ANNUAL DEBT PAYMENTS		\$587,962	\$587,962	\$587,962	\$587,962	\$587,962	\$370,080	\$370,080	\$370,080	\$370,080	\$370,080
COST PER REU		\$12.14	\$12.14	\$12.14	\$12.14	\$12.14	\$7.64	\$7.64	\$7.64	\$7.64	\$7.64

Grand Ledge Sewer

EQUIPMENT REPLACEMENT SHORT LIVED ASSETS

2021

SHORT LIVED ASSETS SOMEWHERE BETWEEN 0-15 OR 20 YEARS

YOUR ANTICIPATED NORMAL INTENDED USEFUL LIFE OR YEARS BETWEEN REHAB SHOULD BE BASED ON PAST MAINTENANCE HISTORY, WELL MAINTENANCE RECORDS AND WATER TOWER INSPECTION REPORTS. - A COPY OF THESE REPORTS SHOULD BE INCLUDED IN YOUR RATE EVALUATION AS AN ATTACHEMET OR APPENDIX --- ALSO NOTE YOU ARE APPLYING FOR A USDA RURAL DEVELOPMENT GRANT OR HOPE TO GET A USDA GRANT - THE REMAINING YEARS OF LIFE FOR ANY EQUIPMENT CAN NOT EXCEED 15 YEARS. FOR ANYTHING - WATER METERS WATER TOWER PAINTING ECT. ONCE THE USEFUL LIFE OR NEXT ANTICIPATED MAINTENANCE IS LESS THAN 15 YEARS AWAY IT CAN BE LISTED HERE,

FIXED ASSET INVENTORY		ASSET REPLACEMENT SCHEDULE								
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION / MAINTENANCE HISTORY	ORIGINAL INSTALLATION YEAR OR LAST REHAB YEAR	ESTIMATED NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT ANTICIPATED REPLACEMENT YEAR	REMAINING LIFE - YEARS BEFORE REPLACEMENT	TOTAL REPLACEMENT COST	PERCENT OF ASSET LEFT	PERCENT CONSUMED	REPLACEMENT MONEY RESERVED ANNUALLY
Eaton Hwy										
(2) Pumps		2010	15	11	2025	4	\$17,300	27%	73%	\$1,153
ELECTRIC PANEL & CONTROLS	In O & M budget	2019	25	2	2044	23	\$1	92%	8%	\$0
Loch Ledge										
(2) Pumps		2005	15	16	2020	-1	\$16,000	-7%	107%	\$1,067
ELECTRIC PANEL & CONTROLS	In O & M budget	2010	25	11	2035	14	\$1	56%	44%	\$0
Burt Ave										
(2) Pumps	In O & M budget	2017	15	4	2032	11	\$1	73%	27%	\$0
ELECTRIC PANEL & CONTROLS	In O & M budget	1990	25	31	2015	-6	\$1	-24%	124%	\$0
Whitney St										
(2) Pumps		2008	15	15	2023	2	\$15,000	13%	87%	\$1,000
ELECTRIC PANEL & CONTROLS	In O & M budget	2018	25	3	2043	22	\$1	88%	12%	\$0
(2) Motors	In O & M budget	2008	15	15	2023	2	\$1	13%	87%	\$0
W River St										
Pump 1	NEW 1990 - REHABED 2010	2018	5	3	2023	2	\$18,000	40%	60%	\$3,600
PUMP 2	NEW 1990 - REHABED 2011	2017	5	4	2022	1	\$18,000	20%	80%	\$3,600
PUMP 3	NEW 1990 - REHABED 2011	2019	5	2	2024	3	\$18,000	60%	40%	\$3,600
MOTOR 1	In O & M budget	2017	15	4	2032	11	\$1	73%	27%	\$0
MOTOR 2	In O & M budget	2011	15	10	2026	5	\$1	33%	67%	\$0
MOTOR 3	In O & M budget	2011	15	10	2026	5	\$1	33%	67%	\$0
(3) Check Valve 6" - 900 EACH	In O & M budget	1990	35	31	2025	4	\$1	11%	89%	\$0
Control Panel Allen Brady	In O & M budget	2010	20	11	2030	9	\$1	45%	55%	\$0
Electric Panel/Gear	In O & M budget	2010	20	11	2030	9	\$1	45%	55%	\$0
(3) VFD	2 REPLACED IN 2016	2016	15	5	2031	10	\$20,000	67%	33%	\$1,333
Mag/Flowmeter	In O & M budget	2010	20	11	2030	9	\$1	45%	55%	\$0
Overflow Mag	In O & M budget	2010	25	11	2035	14	\$1	56%	44%	\$0
Generator	Portable	1990	40	31	2030	9	\$50,000	23%	78%	\$1,250
Confined Space Hoist/System	In O & M budget	2016	20	5	2036	15	\$1	75%	25%	\$0
BUILDING MAINT - ROOF & HEAT ETC.		2015	20	6	2035	14	\$15,000	70%	30%	\$750
Generator Stationary		1995	40	26	2035	14	\$50,000	35%	65%	\$1,250
W Jefferson St										
(2) Pumps		2006	20	15	2026	5	\$70,000	25%	75%	\$3,500
Generator		2006	40	15	2046	25	\$80,000	63%	38%	\$2,000
(2) Check Valves	In O & M budget	2006	25	15	2031	10	\$1	40%	60%	\$0
(2) VFD Cutler Hammer SUX 9000		2006	20	15	2026	5	\$18,000	25%	75%	\$900
(3) Valves Butterfly		2006	25	15	2031	10	\$14,700	40%	60%	\$588
Mag Flowmeter	In O & M budget	2006	20	15	2026	5	\$1	25%	75%	\$0
Controls Multismart	In O & M budget	2006	20	15	2026	5	\$1	25%	75%	\$0
Electric Gear/Panels	In O & M budget	2006	25	15	2031	10	\$1	40%	60%	\$0
Fitzgerald Field										
(2) Pumps		1992	30	29	2022	1	\$10,300	3%	97%	\$343
Controls	In O & M budget	2018	20	3	2038	17	\$1	85%	15%	\$0
							\$430,320	42%		\$ 25,936

Grand Ledge Sewer EQUIPMENT REPLACEMENT PAGE 2										
2021										
MID-TERM ASSETS 15-30 YEARS										
FIXED ASSET INVENTORY		ASSET REPLACEMENT SCHEDULE								ANNUAL RESERVE
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION / MAINTENANCE HISTORY	ORIGINAL INSTALLATION YEAR	NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT REPLACEMENT YEAR	REMAINING LIFE-YEARS BEFORE REPLACEMENT	TOTAL REPLACEMENT COST	PERCENT CONSUMED	REPLACEMENT MONEY RESERVED ANNUALLY	
MAINTENANCE BLD /Screening Room										
Bar Screen		2011	20	10	2031	10	\$61,700	50%	\$3,085	
Washing Screw Compactor		2011	20	10	2031	10	\$40,650	50%	\$2,033	
Controls		2011	20	10	2031	10	\$22,300	50%	\$1,115	
Recycle Pump	In O & M budget	2011	20	10	2031	10	\$1	50%	\$0	
Electric Controls	In O & M budget	2011	20	10	2031	10	\$1	50%	\$0	
Gas Detectors	In O & M budget	2019	5	2	2024	3	\$1	40%	\$0	
Exhaust Fan	In O & M budget	2011	20	10	2031	10	\$1	50%	\$0	
Chlorine Tablet	In O & M budget	2011	20	10	2031	10	\$1	50%	\$0	
Muffin Monster		2011	25	10	2036	15	\$10,000	40%	\$400	
MAINTENANCE BLD - ROOF ETC.		2011	20	10	2031	10	\$35,000	50%	\$1,750	
ELECTRICAL PANELS		2011	25	10	2036	15	\$20,000	40%	\$800	
Grit Building										
Sampler for Influent	In O & M budget	2019	10	2	2029	8	\$1	20%	\$0	
Grit Blower and 10 H.P. Motor		2011	15	10	2026	5	\$22,500	67%	\$1,500	
Exhaust Fan	In O & M budget	2011	20	10	2031	10	\$1	50%	\$0	
Parshall Flume	In O & M budget	2011	30	10	2041	20	\$1	33%	\$0	
Influent Flow Meter	In O & M budget	2011	15	10	2026	5	\$1	67%	\$0	
Chlorine Room										
Chlorine Pace Unit	In O & M budget	2019	10	2	2029	8	\$1	20%	\$0	
(2) Chlorine Regulators	In O & M budget	2018	10	3	2028	7	\$1	30%	\$0	
Chlorine Gas Leak Detector	In O & M budget	2011	15	10	2026	5	\$1	67%	\$0	
Final Effluent Flow Meter	In O & M budget	2011	10	10	2021	0	\$1	100%	\$0	
Pump Room										
1 Lobe Pro Sludge Pumps 15 H.P.		2018	10	3	2028	7	\$18,000	30%	\$1,800	
1 Lobe Pro Sludge Pumps 15 H.P. 2		2019	10	2	2029	8	\$18,000	20%	\$1,800	
Return Pumps 15 H.P. 1		2020	12	1	2032	11	\$28,000	8%	\$2,333	
Return Pumps 15 H.P. 2		2020	12	1	2032	11	\$28,000	8%	\$2,333	
Return Pumps 15 H.P. 3		2013	12	8	2025	4	\$28,000	67%	\$2,333	
(2) Effluent Pumps 10 H.P.	In O & M budget	2012	20	9	2032	11	\$1	45%	\$0	
Power Valve	In O & M budget	2014	10	7	2024	3	\$1	70%	\$0	
(3) "Mags" Return Sludge Waste	ONE REPLACED ON WAS 2019	2009	15	12	2024	3	\$15,000	80%	\$1,000	

Grand Ledge Sewer EQUIPMENT REPLACEMENT PAGE 2									ANNUAL RESERVE
2021									
MID-TERM ASSETS 15-30 YEARS									REPLACEMENT MONEY RESERVED ANNUALLY
FIXED ASSET INVENTORY		ASSET REPLACEMENT SCHEDULE							
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION / MAINTENANCE HISTORY	ORIGINAL INSTALLATION YEAR	NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT REPLACEMENT YEAR	REMAINING LIFE YEARS BEFORE REPLACEMENT	TOTAL REPLACEMENT COST	PERCENT CONSUMED	
Cummins Diesel Powered Generator - NEW 2011 40 YRS		2011	30	10	2041	20	\$150,000	33%	\$5,000
Intermediate Lift Station									
(3) 15 H.P. Submersible Pumps		2011	20	10	2031	10	\$42,000	50%	\$2,100
Hoist for Pump Service	In O & M budget	2011	30	10	2041	20	\$1	33%	\$0
Electric Panel and Controls		2011	20	10	2031	10	\$10,000	50%	\$500
Primary Tanks (2)									
Flight Drive		2020	30	1	2050	29	\$30,000	3%	\$1,000
Cross Screws		1975	46	46	2021	0	\$12,500	100%	\$272
Replacement Chain/Flights		2009	15	12	2024	3	\$22,140	80%	\$1,476
Aeration Tanks									
Replacement Membranes for All Diffusers		2009	15	12	2024	3	\$15,000	80%	\$1,000
Blower Room									
Centrifugal Blowers 1		2014	15	7	2029	8	\$33,000	47%	\$2,200
Centrifugal Blowers 2		2007	15	14	2022	1	\$90,000	93%	\$6,000
Centrifugal Blowers 3		2010	15	11	2025	4	\$33,000	73%	\$2,200
							\$784,806		\$ 44,031

Grand Ledge Sewer EQUIPMENT REPLACEMENT PAGE 3									ANNUAL RESERVE
2021									
FIXED ASSET INVENTORY		ASSET REPLACEMENT SCHEDULE							REPLACEMENT MONEY RESERVED ANNUALLY
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION / NOTES	ORIGINAL INSTALLATION YEAR	NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT REPLACEMENT YEAR	TOTAL REPLACEMENT COST	PERCENT OF ASSET LEFT	PERCENT CONSUMED	
Final Clarifier Drives									
(1) Final Drive Gearbox/Clarifier		2020	45	1	2065	\$185,000	98%	2%	\$4,111
(1) Final Drive Gearbox/Clarifier		2019	45	2	2064	\$185,000	96%	4%	\$4,111
Chemical Feed Room									
Lime Pumps 1	In O & M budget	2013	15	8	2028	\$1	47%	53%	\$0
Lime Pumps 2	In O & M budget	2010	15	11	2025	\$1	27%	73%	\$0
Ferric Pumps (2)	In O & M budget	2014	15	7	2029	\$1	53%	47%	\$0
Bisulfite Pumps	In O & M budget	2019	15	2	2034	\$1	87%	13%	\$0
5,000 Gallon Ferric Tanks (2)		2016	20	5	2036	\$27,942	75%	25%	\$1,397
Pulse Dampeners for Lime Pumps (2)	In O & M budget	2014	25	7	2039	\$1	72%	28%	\$0
Lime Dust Collector	In O & M budget	1982	40	39	2022	\$1	3%	98%	\$0
Lab Equipment									
Spectrophotometer	In O & M budget	2016	10	5	2026	\$1	50%	50%	\$0
"Top Loader" Scale	In O & M budget	2005	20	16	2025	\$1	20%	80%	\$0
"Door Scale"	In O & M budget	2000	20	21	2020	\$1	-5%	105%	\$0
Drying Oven	In O & M budget	2019	20	2	2039	\$1	90%	10%	\$0
pH Meter	In O & M budget	2016	10	5	2026	\$1	50%	50%	\$0
Muffle Furnace	In O & M budget	2017	10	4	2027	\$1	60%	40%	\$0
BOD Incubator	In O & M budget	2014	15	7	2029	\$1	53%	47%	\$0
Autoclave	In O & M budget	2012	15	9	2027	\$1	40%	60%	\$0
BOD Meter	In O & M budget	2017	8	4	2025	\$1	50%	50%	\$0
Water Softener	In O & M budget	2000	20	21	2020	\$1	-5%	105%	\$0
Primary Sampler	In O & M budget	2010	15	11	2025	\$1	27%	73%	\$0
Final Sampler	In O & M budget	2008	15	13	2023	\$1	13%	87%	\$0
Scada Computer	In O & M budget	2020	1	1	2021	\$1	0%	100%	\$1
Scada Computer "Backup"	In O & M budget	2020	7	1	2027	\$1	86%	14%	\$0

Grand Ledge Sewer EQUIPMENT REPLACEMENT PAGE 3									ANNUAL RESERVE
2021									
FIXED ASSET INVENTORY		ASSET REPLACEMENT SCHEDULE							REPLACEMENT MONEY RESERVED ANNUALLY
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION / NOTES	ORIGINAL INSTALLATION YEAR	NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT REPLACEMENT YEAR	TOTAL REPLACEMENT COST	PERCENT OF ASSET LEFT	PERCENT CONSUMED	
SCADA SOFTWARE	In O & M budget	2020	20	1	2040	\$0	95%	5%	\$0
Miscellaneous									
Heat and A/C Unit for WWTP on Roof	In O & M budget	2010	20	11	2030	\$1	45%	55%	\$0
ROOF - MAIN WWTP BUILDING		2019	20	2	2039	\$35,000	90%	10%	\$1,750
Vehicles									
Vactor		2020	1	1	2021	\$100,000	0%	100%	\$100,000
Camera Truck		2013	15	8	2028	\$75,000	47%	53%	\$5,000
2017 Dodge PICKUP INCLUDES PLOW & SERVICE BODY		2017	8	4	2025	\$38,500	50%	50%	\$4,813
Crane/Hoist	In O & M budget	2014	20	7	2034	\$1	65%	35%	\$0
ROOFS - GRIT, INTERMEDIATE LS, VALVE, CONTROL BLD		1997	20	24	2017	\$15,000	-20%	120%	\$750
						\$661,464	49%		\$ 121,934

**MICHIGAN RURAL WATER ASSOCIATION
RATE EVALUATION PROGRAM**

CAPITAL IMPROVEMENT RUNNING BALANCE PROJECTIONS & ANNUAL FUNDING					
ANNUAL COST OF LIVING INCREASE TO PROJECTS					2.00%
CURRENT RESERVE BALANCE APPLIED TO CAPITAL IMPROVEMENTS:					\$600,000
AVG. INTEREST RATE IN SAVINGS:					0.00%
IF AN ANNUAL COLA RATE ADJUSTMENT PERCENT OF					0.00%
YEAR	RATES / CASH CONTRIBUTION	EXTRA FUNDING FROM ?	AVERAGE ANNUAL FUNDING AMOUNT IN RATE BUDGET	TOTAL COMBINED ANNUAL FUNDING	RUNNING BALANCE
2021	\$0		<u>\$229,500</u>	\$229,500	\$829,500
2022	\$158,151	<u>\$0</u>	\$229,500	\$229,500	\$900,849
2023	\$182,000	\$0	\$229,500	\$229,500	\$948,349
2024	\$185,500	\$0	\$229,500	\$229,500	\$992,349
2025	\$270,000	\$0	\$229,500	\$229,500	\$951,849
2026	\$275,000	\$0	\$229,500	\$229,500	\$906,349
2027	\$0	\$0	\$229,500	\$229,500	\$1,135,849
2028	\$0	\$0	\$229,500	\$229,500	\$1,365,349
2029	\$0	\$0	\$229,500	\$229,500	\$1,594,849
2030	\$590,000	\$0	\$229,500	\$229,500	\$1,234,349
2031	\$4,200,000	\$0	\$229,500	\$229,500	(\$2,736,151)
2032	\$0	\$0	\$229,500	\$229,500	(\$2,506,651)
2033	\$0	\$0	\$229,500	\$229,500	(\$2,277,151)
2034	\$0	\$0	\$229,500	\$229,500	(\$2,047,651)
2035	\$0	\$0	\$229,500	\$229,500	(\$1,818,151)
2036	\$0	\$0	\$229,500	\$229,500	(\$1,588,651)
2037	\$0	\$0	\$229,500	\$229,500	(\$1,359,151)
2038	\$0	\$0	\$229,500	\$229,500	(\$1,129,651)
2039	\$0	\$0	\$229,500	\$229,500	(\$900,151)
2040	\$1,380,000	\$0	\$229,500	\$229,500	(\$2,050,651)
2041	\$0	\$0	\$229,500	\$229,500	(\$1,821,151)

Grand Ledge Sewer							Oneida Twp Sewer	
	CURRENT		NEW		PERCENT INCREASE	DIFFERENCE	CURRENT	NEW
PER 1,000 GAL.	\$9.24		\$9.08		-1.7%	-\$0.16	\$9.24	\$9.08
2021	CURRENT		NEW			DIFFERENCE PER MONTH	CURRENT	NEW
METER SIZE	READY TO SERVE PER MONTH	CURRENT / OLD METER RATIO REU'S PER METER SIZE	READY TO SERVE PER MONTH	METER RATIO FACTOR - REU'S PER METER SIZE	PERCENT INCREASE		READY TO SERVE PER MONTH	READY TO SERVE PER MONTH
3/4	\$8.30	1.00	\$12.14	1.00	46.3%	\$3.84	\$8.30	\$12.14
1	\$8.30	1.00	\$30.37	2.50	265.8%	\$22.07	\$8.30	\$30.37
1 1/2	\$8.30	1.00	\$60.72	5.00	631.6%	\$52.42	\$8.30	\$60.72
2	\$8.30	1.00	\$97.16	8.00	1070.5%	\$88.86	\$8.30	\$97.16
3	\$8.30	1.00	\$194.31	16.00	2241.1%	\$186.01	\$8.30	\$194.31
4	\$8.30	1.00	\$303.61	25.00	3558.0%	\$295.31	\$8.30	\$303.61
6	\$8.30	1.00	\$607.22	50.00	7215.9%	\$598.92	\$8.30	\$607.22
8	\$8.30	1.00	\$1,214.44	100.00	14531.8%	\$1,206.14	\$8.30	\$1,214.44

MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

FINAL ANALYSIS RATE CALCULATION - CURRENT FISCAL YEAR	2021	0%	2021			
Grand Ledge Sewer	ANNUAL BUDGET	PERCENT FIXED EXPENSES	BASE RATE FIXED EXPENSES	COST PER REU	CONSUMPTION VARIABLE EXPENSES	VOLUME COST PER UNIT
Dept.: 592.536 PLANT OPERATION & MAINTENANCE	\$696,901	0%	\$0	\$0.00	\$696,901	\$3.611
Dept.: 592.538 LIFT STATION	\$105,141	0%	\$0	\$0.00	\$105,141	\$0.545
Dept.: 592.539 SEWERS	\$292,341	0%	\$0	\$0.00	\$292,341	\$1.515
Dept.: 592.542 SEWER GENERAL EXPENSE	\$346,792	0%	\$0	\$0.00	\$346,792	\$1.797
OPERATION & MAINTENANCE EXPENSES	\$1,441,175		\$0	\$0.00	\$1,441,175	\$7.467
DEBT - PRINCIPAL & INTEREST ANNUAL PAYMENTS						
2014 Refunded complete 2025	\$217,882	100%	\$217,882	\$4.50	\$0	\$0.00
2019 Capital Improvement Bonds	\$146,978	100%	\$146,978	\$3.04	\$0	\$0.00
2009 Bonds	\$223,102	100%	\$223,102	\$4.61	\$0	\$0.00
ANNUAL DEBT PAYMENTS PRINCIPAL & INTEREST	\$587,962		\$587,962	\$12.14	\$0	\$0.00
ANNUAL O & M + DEBT	\$2,029,136		\$587,962	\$12.14	\$1,441,175	\$7.47
"NON OPERATING" INCOME REDUCTION CONTRIBUTION				0.000		0.078
CALCULATED RATE O & M + DEBT	PER REU		MONTH	\$12.14		\$7.39
RESERVES						
EQUIPMENT REPLACEMENT SHORT LIVED ASSETS	\$20,000	0%	\$0	\$0.00	\$20,000	\$0.10
EQUIPMENT REPLACEMENT PAGE 2	\$27,500	0%	\$0	\$0.00	\$27,500	\$0.14
EQUIPMENT REPLACEMENT PAGE 3	\$50,000	0%	\$0	\$0.00	\$50,000	\$0.26
CAPITAL IMPROVEMENT	\$229,500	0%	\$0	\$0.00	\$229,500	\$1.19
CAPITAL + EQUIPMENT & RRI RESERVES	\$327,000		\$0	\$0.00	\$327,000	\$1.69
ADOPTED BUDGET	\$2,356,136		\$587,962		\$1,768,175	
REVENUE COLLECTED THROUGH RATES	\$2,341,136		\$587,962		\$1,753,175	
CALCULATED RATE PER PER REU	PER		MONTH	\$12.14	1,000 GAL.	\$9.08
ANNUAL EQUIVALENT REU'S 48,414			CURRENT RATES	\$8.30		\$9.24
ANTICIPATED EQUIVALENT GALLONS / UNITS 193,000			PERCENT INCREASE	46.3%		-1.7%
INVOICES PER YEAR 12			INCREASE OF	\$3.84		(\$0.16)

TYPICAL BILL SEWER				OLD RTS \$8.30			\$ PER 1,000 GAL.
Grand Ledge Sewer		COST PER UNIT OF WATER \$9.08	MONTHLY	OLD COST PER UNIT OF WATER \$9.24			
METER SIZE IN INCHES	GALLONS USED	VOLUME CHARGE	BASE RATE CHARGE	NEW BILL	OLD BILL	CHANGE IN BILL	PERCENT INCREASE
3/4	3,000	\$27.25	\$12.14	\$39.40	\$36.02	\$3.38	9.37%
3/4	4,000	\$36.34	\$12.14	\$48.48	\$45.26	\$3.22	7.11%
3/4	5,000	\$45.42	\$12.14	\$57.56	\$54.50	\$3.06	5.62%
3/4	6,000	\$54.50	\$12.14	\$66.65	\$63.74	\$2.91	4.56%
3/4	7,000	\$63.59	\$12.14	\$75.73	\$72.98	\$2.75	3.77%
1	20,000	\$181.68	\$30.37	\$212.04	\$193.10	\$18.94	9.81%
1 1/2	50,000	\$454.19	\$60.72	\$514.91	\$470.30	\$44.61	9.49%
2	75,000	\$681.29	\$97.16	\$778.44	\$701.30	\$77.14	11.00%
3	200,000	\$1,816.76	\$194.31	\$2,011.07	\$1,856.30	\$154.77	8.34%
4	300,000	\$2,725.14	\$303.61	\$3,028.75	\$2,780.30	\$248.45	8.94%
6	400,000	\$3,633.52	\$607.22	\$4,240.74	\$3,704.30	\$536.44	14.48%