



**Tawas Utilities Authority SRF Project Plan**  
**SUMMARY OF COSTS FOR ORIGINAL AND CURRENT SELECTED ALTERNATIVE**

Items	Original Filtration, UV Aerobic Digestion	Revised Gas Chlorine Anaerobic Digestion
<b>Capital Costs</b>		
Common Elements	\$5,578,400	\$5,578,400
Gas Chlorine		\$69,300
UV Disinfection	\$774,000	
Filtration	\$1,157,000	
Aerobic Digestion	\$451,100	
Delete Primary clarifiers	\$20,000	
Anaerobic Digestion		\$606,052
Rehab Primary clarifiers		\$245,000
<b>Total Construction Cost Opinion</b>	<b>\$7,980,500</b>	<b>\$6,498,800</b>
Engineering Planning and Contingencies	\$2,394,200	\$1,949,600
Total Project Cost, Current Dollars	\$10,374,700	\$8,448,400
Escalation to 2023 Construction, 3% per Year	\$622,480	\$506,900
<b>Opinion of Probable Cost</b>	<b>\$10,997,180</b>	<b>\$8,955,300</b>
<b>Amount Financed</b>		
Capital cost	\$10,997,180	\$8,955,300
Principal forgiveness	\$1,649,577	\$1,343,295
<b>Loan Principal</b>	<b>\$9,347,603</b>	<b>\$7,612,005</b>



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UV Disinfection	\$774,000	
Filtration	\$1,157,000	
Aerobic Digestion	\$451,100	
Delete Primary clarifiers	\$20,000	
Anaerobic Digestion		\$606,052
Rehab Primary clarifiers		\$245,000
<b>Total Construction Cost Opinion</b>	<b>\$2,402,100</b>	<b>\$920,400</b>
Engineering Planning and Contingencies	\$720,600	\$276,100
Total Project Cost, Current Dollars	\$3,122,700	\$1,196,500
Escalation to 2023 Construction, 3% per Year	\$187,360	\$71,790
<b>Opinion of Probable Cost</b>	<b>\$3,310,060</b>	<b>\$1,268,290</b>



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<b>Capital Costs</b>	<b>\$10,997,180</b>	<b>\$8,955,300</b>
<b>O&amp;M Cost Differential</b>		
Gas Chlorination disinfection		\$ 11,040.00
UV Disinfection	\$15,260	
Anaerobic Disinfection		\$16,200
Aerobic Disinfection	\$22,700	
HVAC and Misc. Savings	(\$3,500)	(\$3,500)
<b>Opinion of O&amp;M Cost Differential</b>	<b>\$34,460</b>	<b>\$23,740</b>
<b>Amount Financed</b>		
Capital cost	\$10,997,180	\$8,955,300
Principal forgiveness	\$1,649,577	\$1,343,295
<b>Loan Principal</b>	<b>\$9,347,603</b>	<b>\$7,612,005</b>
<b>Cost Per REU with 20 Year Financing</b>		
Interest Rate, Per OMB guidance	1.875%	1.875%
Annual Debt Service	\$664,466	\$541,092
Debt Service per REU	\$270	\$220
O&M Change per REU	\$14	\$9
<b>Cost Per REU at 2500 REU</b>	<b>\$284</b>	<b>\$229</b>
<b>Cost Per REU with 30 Year Financing</b>		
Interest Rate	2.125%	2.125%
Annual Debt Service	\$499,503	\$406,759
Debt Service per REU	\$200	\$170
O&M Change	\$14	\$9
<b>Cost Per REU at 2500 REU</b>	<b>\$214</b>	<b>\$179</b>