

Cash Flow for Brine Well - Based on 20 Year Bond

(assumes 12% annual salt increase avoidance)

	Build Year	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10	Yr11
Cash Inflows												
Debt Proceeds	\$1,700,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Reduced Costs	\$0	\$180,000	\$201,600	\$225,792	\$252,887	\$283,233	\$317,222	\$355,288	\$397,923	\$445,673	\$499,154	\$559,053
Year total	\$1,700,000	\$180,000	\$201,600	\$225,792	\$252,887	\$283,233	\$317,222	\$355,288	\$397,923	\$445,673	\$499,154	\$559,053
Cumulative total	\$1,700,000	\$180,000	\$381,600	\$607,392	\$860,279	\$1,143,513	\$1,460,734	\$1,816,022	\$2,213,945	\$2,659,618	\$3,158,772	\$3,717,825
Cash Outflows												
One time investment	(\$1,700,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P&I on Debt	\$0	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)
Maintenance Cost	0	(7,000)	(7,210)	(7,426)	(7,649)	(7,879)	(8,115)	(8,358)	(8,609)	(8,867)	(9,133)	(9,407)
Year total	(\$1,700,000)	(\$132,089)	(\$132,299)	(\$132,515)	(\$132,738)	(\$132,968)	(\$133,204)	(\$133,447)	(\$133,698)	(\$133,956)	(\$134,222)	(\$134,496)
Cumulative total	(\$1,700,000)	(\$132,089)	(\$264,388)	(\$396,903)	(\$529,641)	(\$662,609)	(\$795,813)	(\$929,260)	(\$1,062,958)	(\$1,196,915)	(\$1,331,137)	(\$1,465,634)
Net Effect on Cash												
Annual Savings	\$0	\$47,911	\$69,301	\$93,277	\$120,149	\$150,266	\$184,018	\$221,841	\$264,225	\$311,717	\$364,932	\$424,556
Cumulative Savings	\$0	\$47,911	\$117,212	\$210,489	\$330,638	\$480,904	\$664,921	\$886,762	\$1,150,986	\$1,462,703	\$1,827,635	\$2,252,191

	Total Cost
Brine Well	
Design	\$150,000.00
Construction	\$1,550,000.00
Total Investment	\$1,700,000.00

Debt Proceeds \$1,700,000.00

P&I on \$1,700,000 bond 20 yrs, 4% \$125,089.00

Ongoing Costs
Maintenance - Brine Well \$7,000.00 3% annual increase

Reduced Costs - Water Plant
Plant Salt reduction \$180,000.00 Based on 2019 Univar rate of \$180 per ton and the 2001-2018 average annual per ton usage of 1,000. Assumes 12% annual increase.

Note: After examination it was determined that additional water usage from new developments would be offset by water reducing technology. Therefore this calculation assumes flat water usage.