Reserve Study Level I

Prepared for Lakemoor Community Club

2017 Fiscal Year



Prepared by CEDCORE, LLC Version 5 © 2016 CEDCORE, LLC



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1. Executive Summary

		Report Details		
Association Name:	Lakemoor Commun	ity Club		
Location:	Olympia, WA	Number of Units:	288	
Level of Service:	Level I	Site Visit Date:	9/20/2016	
Report Period:	FY 2017	Projection Period:	2017 - 2046	
Reserve Account Snap Sho	ot 1, 2017			
Projected Reserve Balance	2:			\$0
Fully Funded Reserve Bala	nce:			\$127,394
Percent Funded:				0 %
Reserve Surplus or (-) Defi	cit Per Unit:			(\$442)
Current Monthly Reserve	Fund Contribution:			\$0
Interest Rate				1.00 %
Inflation Rate				3.00 %
2017 Reserve Contribution	n Requirements (base	d on the above position)		
Full Funding	Monthly Reserve Co	ontribution:		\$2,110
	Monthly Reserve Co	ontribution Per Unit (Average):		\$7
	Special Assessment	Required for this Plan:		\$0
Baseline Funding	Monthly Reserve Co	ontribution:		\$1,770
	Monthly Reserve Co	ontribution Per Unit (Average):		\$6
	Special Assessment	Required for this Plan:		\$0

Based upon the budget and maintenance practices of the association we have used a funding threshold of \$1,000. Expenses below \$1,000 are not funded within this report and best treated as a maintenance expense. We have included comments within the Component Analysis Section of this report.



1.1 Table 1 - Component List

Component	Quantity	Current Cost	UL	RUL
Asphalt: Resurface	19,204 Square Feet	\$48,010	50	9
Asphalt: Seal	19,204 Square Feet	\$5,761	5	4
Basketball Assembly: Replace	2 Each	\$2,500	15	13
Dock: Repair	1 Allowance	\$3,000	3	10
Dock: Replace	220 Square Feet	\$44,000	25	25
Dock: Replace	425 Square Feet	\$94,000	25	25
Dock: Swim Floats	3 Unit	\$12,000	20	10
Drainage	Unfunded due to unpredictable	nature of component		
Entry Monument: Repair/Replace	1 Allowance	\$9,000	25	24
Fence: Chainlink, Replace	588 Linear Feet	\$11,760	30	15
Fence: Chainlink, Replace Basket Ball Court	438 Linear Feet	\$15,330	30	28
Gravel : Refurbish	1 Allowance	\$2,000	5	3
Irrigation System: Repair	1 Allowance	\$3,090	5	0
Irrigation: Replacement Project	1 Allowance	\$10,000		1
Landscaping: Refurbish	1 Allowance	\$5,000	4	2
Lights: Pole, Replace	Unfunded, not Association respo	onsibility		
Mailbox Cluster: Replace	Unfunded, not Association respo	onsibility		
Mower: Replace	1 Unit	\$10,000	10	7
Picnic Assets	1 Allowance	\$15,574	25	16
Play Equipment: Rope Dome Replacement	1 Unit	\$22,000	25	18
Shed: Repair Allowance	1 Allowance	\$4,750	8	0
Signs / Pet Stations: Replace	Unfunded operating expense			
Sport Court: Resurface	1 Allowance	\$11,000	15	13
Sports Field: Refurbish Leveling & Reseeding	1 Allowance	\$20,000		1
Storage Rack: Canoe and Peddle Boat	3 Unit	\$3,900	12	11
Streets	Unfunded, not Association respo	onsibility		
Swing Set Toy Structure: Replace	1 Unit	\$20,000	25	2
Swing Sets: Replace	1 Allowance	\$10,500	25	18
Swing Sets: Replace	1 Allowance	\$10,500	25	3
	Total Current Costs	\$393,675		
	Total Funded Components	24		

Components without a UL are one-time expenses, not expecting to reoccur at this time. It is important to note that actual costs may vary significantly based on scope of work, actual conditions, hidden deterioration, vendor selection, etc. This component list is for budget planning purposes only.

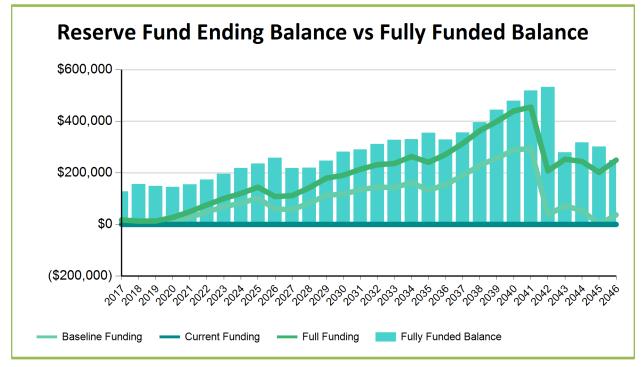


2. Financial Analysis

We have created the financial projections and recommendations based on the component list in Table One and a projected reserve fund balance \$0. For your Association to be 100% funded there should be \$127,394 in your reserve account(s). Therefore, your Association is projected to be 0.00% funded.

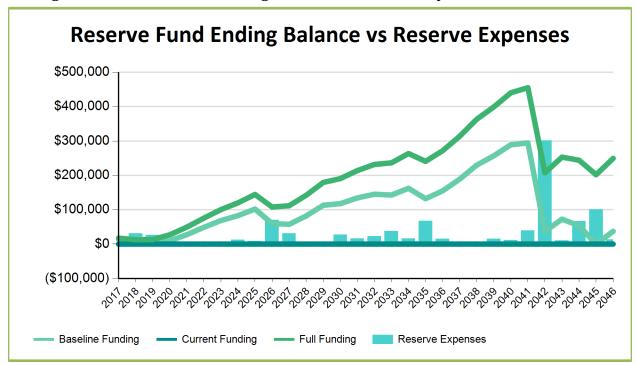
We recommend the Full Funding, which requires a monthly reserve contribution of \$2,110 with a 3.00 % increase in contributions each year for the next 30 years.

Currently the Association has monthly reserve contributions of \$1 and are Not projected to be sufficient over the next 30 years. The Baseline monthly reserve contribution requires \$1,770, with a 3.00 % increase in contributions each year for the next 30 years. The baseline funding plan is the lowest contribution amount calculated to prevent the Reserve Fund from dropping below a zero balance.



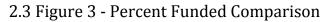
2.1 Figure 1 - Reserve Fund Ending Balance vs Fully Funded Balance

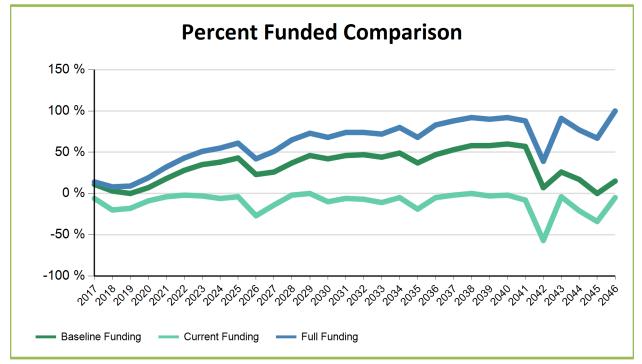




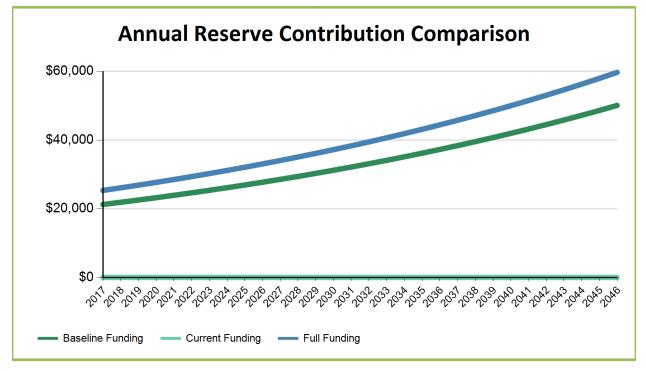
2.2 Figure 2 - Reserve Fund Ending Balance vs Reserve Expenses







2.4 Figure 4 – Reserve Contribution Comparison





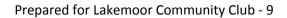
2.5.1 - 30 Year Reserve Fund Projection	(Current Funding)
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Current	Funding Plan							
Year	Start Balance	Annual Reserve Contribution	Special Assessments	Additional Assessments Necessary Per Unit /Per Year	Interest Income	Reserve Expenses	Fully Funded Balance	Percent Funded
2017	\$1	\$12	\$0	\$27	\$0	\$7,840	\$127,394	-6.14 %
2018	\$0	\$12	\$0	\$107	\$0	\$30,900	\$156,848	-19.69 %
2019	\$0	\$12	\$0	\$92	\$0	\$26,523	\$148,531	-17.85 %
2020	\$0	\$12	\$0	\$47	\$0	\$13,659	\$145,037	-9.41 %
2021	\$0	\$12	\$0	\$22	\$0	\$6,484	\$155,269	-4.17 %
2022	\$0	\$13	\$0	\$12	\$0	\$3,582	\$173,797	-2.05 %
2023	\$0	\$13	\$0	\$21	\$0	\$5,970	\$196,486	-3.03 %
2024	\$0	\$13	\$0	\$43	\$0	\$12,299	\$218,031	-5.63 %
2025	\$0	\$13	\$0	\$30	\$0	\$8,551	\$235,624	-3.62 %
2026	\$0	\$13	\$0	\$244	\$0	\$70,159	\$258,318	-27.15 %
2027	\$0	\$13	\$0	\$108	\$0	\$31,032	\$218,968	-14.17 %
2028	\$0	\$13	\$0	\$19	\$0	\$5,399	\$219,495	-2.45 %
2029	\$0	\$14	\$0		\$0	\$0	\$247,217	0.01 %
2030	\$14	\$14	\$0	\$94	\$0	\$27,168	\$282,132	-9.62 %
2031	\$0	\$14	\$0	\$56	\$0	\$16,277	\$290,937	-5.59 %
2032	\$0	\$14	\$0	\$80	\$0	\$23,136	\$312,073	-7.41 %
2033	\$0	\$14	\$0	\$130	\$0	\$37,427	\$327,653	-11.42 %
2034	\$0	\$14	\$0	\$57	\$0	\$16,528	\$329,882	-5.01 %
2035	\$0	\$14	\$0	\$233	\$0	\$67,247	\$354,632	-18.96 %
2036	\$0	\$15	\$0	\$53	\$0	\$15,363	\$328,843	-4.67 %
2037	\$0	\$15	\$0	\$19	\$0	\$5,581	\$356,704	-1.56 %
2038	\$0	\$15	\$0	4	\$0	\$0	\$396,491	0.00 %
2039	\$15	\$15	\$0	\$53	\$0	\$15,329	\$444,265	-3.44 %
2040	\$0	\$15	\$0	\$40	\$0	\$11,644	\$478,760	-2.43 %
2041	\$0	\$15	\$0	\$138	\$0	\$39,662	\$519,194	-7.64 %
2042	\$0	\$15	\$0 ¢0	\$1,047	\$0 ¢0	\$301,692	\$533,124	-56.59 %
2043	\$0	\$16	\$0	\$37	\$0 ¢0	\$10,783	\$278,756	-3.86 %
2044	\$0 \$0	\$16	\$0 ¢0	\$231 \$252	\$0 ¢0	\$66,639	\$317,607	-20.98 %
2045	\$0 \$0	\$16	\$0 \$0	\$352 \$47	\$0 \$0	\$101,424	\$301,339	-33.65 %
2046	\$0	\$16	Ş0	\$47	Ş0	\$13,577	\$250,039	-5.42 %



2.5.2 - 30 Year Reserve Fund Projection (Baseline Funding)

nding Plan				anangj		
	Annual Reserve	Special	Interest	Reserve		
			Î			Percent Funded
						10.53 %
						2.80 %
						0.27 %
\$408	\$23,210	\$0	\$0	\$13,659	\$145,037	6.87 %
\$9,959	\$23,906	\$0	\$108	\$6,484	\$155,269	17.70 %
\$27,489	\$24,623	\$0	\$254	\$3,582	\$173,797	28.07 %
\$48,784	\$25,362	\$0	\$388	\$5,970	\$196,486	34.90 %
\$68,564	\$26,123	\$0	\$485	\$12,299	\$218,031	38.01 %
\$82,873	\$26,906	\$0	\$614	\$8,551	\$235,624	43.22 %
\$101,842	\$27,713	\$0	\$319	\$70,159	\$258,318	23.12 %
\$59,715	\$28,545	\$0	\$301	\$31,032	\$218,968	26.27 %
\$57,529	\$29,401	\$0	\$468	\$5,399	\$219,495	37.36 %
\$81,999	\$30,283	\$0	\$680	\$0	\$247,217	45.69 %
\$112,962	\$31,192	\$0	\$710	\$27,168	\$282,132	41.72 %
\$117,696	\$32,127	\$0	\$822	\$16,277	\$290,937	46.18 %
\$134,368	\$33,091	\$0	\$894	\$23,136	\$312,073	46.53 %
\$145,217	\$34,084	\$0	\$874	\$37,427	\$327,653	43.57 %
\$142,748	\$35,106	\$0	\$1,006	\$16,528	\$329,882	49.21 %
\$162,332	\$36,160	\$0	\$792	\$67,247	\$354,632	37.23 %
\$132,037	\$37,244	\$0	\$947	\$15,363	\$328,843	47.09 %
\$154,865	\$38,362	\$0	\$1,179	\$5,581	\$356,704	52.94 %
\$188,825	\$39,513	\$0	\$1,460	\$0	\$396,491	57.96 %
\$229,798	\$40,698	\$0	\$1,644	\$15,329	\$444,265	57.81 %
			\$1,863			60.35 %
						56.70 %
\$294,360			\$104	\$301,692		6.99 %
			-			26.05 %
						16.80 %
						0.18 %
						14.83 %
	Start Balance \$13,420 \$4,397 \$4,397 \$4,397 \$408 \$9,959 \$27,489 \$48,784 \$68,564 \$82,873 \$101,842 \$59,715 \$57,529 \$81,999 \$112,962 \$117,696 \$134,368 \$145,217 \$142,748 \$162,332 \$132,037 \$154,865 \$188,825 \$229,798 \$256,811 \$288,949	Start BalanceAnnual Reserve Contribution\$1\$21,240\$13,420\$21,877\$4,397\$22,534\$4,397\$22,534\$408\$23,210\$9,959\$23,906\$27,489\$24,623\$48,784\$25,362\$68,564\$26,123\$68,564\$26,123\$68,564\$26,123\$68,564\$26,123\$68,564\$26,123\$68,564\$26,123\$68,564\$26,123\$68,564\$26,123\$59,715\$28,545\$57,529\$29,401\$112,962\$30,283\$112,962\$33,091\$114,5217\$34,084\$145,217\$34,084\$145,217\$34,084\$145,217\$34,084\$142,748\$35,106\$132,037\$37,244\$154,865\$38,362\$138,825\$39,513\$229,798\$40,698\$256,811\$41,919\$288,949\$43,177\$294,360\$44,472\$37,244\$45,806\$72,613\$47,803	Annual Reserve Contribution Special Assessments \$1 \$21,240 \$0 \$13,420 \$21,877 \$0 \$4,397 \$22,534 \$0 \$408 \$223,210 \$0 \$9959 \$23,906 \$0 \$27,489 \$224,623 \$0 \$48,784 \$25,362 \$0 \$48,784 \$26,906 \$0 \$68,564 \$26,123 \$0 \$58,757 \$28,940 \$0 \$59,715 \$28,940 \$0 \$59,715 \$28,940 \$0 \$59,715 \$28,940 \$0 \$510,1842 \$27,713 \$0 \$59,715 \$28,940 \$0 \$510,1842 \$31,102 \$0 \$112,962 \$33,091 \$0 \$117,696 \$32,127 \$0 \$145,217 \$34,084 \$0 \$145,217 \$34,084 \$0 \$144,748 \$35,106 \$0 \$144,748 \$33,913 \$0	Start Balance Annual Reserve Contribution Special Assessment Interest Income \$13,420 \$21,240 \$0 \$19 \$13,420 \$21,877 \$00 \$00 \$4,397 \$22,534 \$00 \$00 \$408 \$23,210 \$00 \$108 \$59,959 \$23,906 \$00 \$108 \$27,489 \$24,623 \$00 \$388 \$68,564 \$26,123 \$00 \$485 \$82,873 \$26,906 \$311 \$311 \$101,842 \$27,713 \$00 \$311 \$59,715 \$28,545 \$300 \$311 \$59,715 \$28,545 \$00 \$311 \$59,715 \$28,545 \$00 \$311 \$59,715 \$28,545 \$00 \$310 \$59,715 \$28,545 \$00 \$310 \$511,2062 \$31,192 \$300 \$468 \$112,962 \$33,091 \$100 \$100 \$1112,962 \$33,091 \$100	Stort BalanceAnnual Reserve ContributionSpecial AssessmentsInterest IncomeReserve Expenses\$1\$21,240\$0\$19\$7,840\$13,420\$21,877\$00\$0\$30,900\$4,397\$22,534\$00\$0\$26,523\$408\$23,210\$00\$108\$6,844\$27,489\$24,623\$00\$128\$6,844\$27,489\$24,623\$00\$348\$5,970\$68,564\$26,123\$00\$485\$12,299\$82,873\$26,906\$00\$614\$8,551\$101,842\$27,713\$00\$648\$5,399\$59,715\$28,545\$00\$310\$31,032\$59,715\$28,545\$00\$648\$5,399\$59,715\$28,545\$00\$100\$27,168\$511,2,962\$31,192\$00\$468\$5,399\$112,962\$31,192\$00\$100\$27,168\$111,964\$32,127\$00\$849\$23,166\$111,965\$33,091\$00\$11,06\$16,277\$134,68\$33,091\$00\$849\$23,166\$114,521\$34,084\$00\$11,06\$16,678\$114,521\$34,084\$00\$11,06\$16,578\$114,521\$34,084\$16\$11,674\$114,64\$35,016\$11,06\$11,674\$114,64\$38,662\$16\$11,64\$114,674\$35,016\$11,64\$15,329\$124,675\$44,672\$16<	Annual Reserve Start Balance Special Assessments Interest Income Reserve Expenses Fully Funded Balance \$1 \$21,240 \$0 \$19 \$7,840 \$127,394 \$13,420 \$21,877 \$0 \$0 \$230,900 \$156,848 \$4,397 \$22,534 \$0 \$0 \$26,523 \$144,531 \$408 \$23,210 \$0 \$108 \$6,484 \$155,269 \$27,489 \$24,623 \$0 \$388 \$5,970 \$196,486 \$68,864 \$26,123 \$0 \$485 \$12,299 \$218,031 \$82,873 \$226,906 \$0 \$485 \$12,299 \$218,031 \$82,873 \$226,906 \$0 \$614 \$8,551 \$228,518 \$559,715 \$28,545 \$0 \$311 \$31,032 \$218,968 \$559,715 \$28,412 \$0 \$710 \$27,168 \$232,129 \$81,999 \$30,283 \$0 \$710 \$27,176 \$247,217 \$112,962 \$33,101





2.5.3 - 30 Year Reserve Fund Projection (Full Funding)

Full Funding Plan

		Annual Reserve	Special	Interest	Reserve		
Year	Start Balance	Contribution	Assessments	Income	Expenses	Fully Funded Balance	Percent Funded
2017	\$1	\$25,320	\$0	\$34	\$7,840	\$127,394	13.75 %
2018	\$17,515	\$26,080	\$0	\$0	\$30,900	\$156,848	8.09 %
2019	\$12,695	\$26,862	\$0	\$0	\$26,523	\$148,531	8.78 %
2020	\$13,034	\$27,668	\$0	\$92	\$13,659	\$145,037	18.71 %
2021	\$27,135	\$28,498	\$0	\$244	\$6,484	\$155,269	31.81 %
2022	\$49,393	\$29,353	\$0	\$423	\$3,582	\$173,797	43.49 %
2023	\$75,587	\$30,233	\$0	\$593	\$5,970	\$196,486	51.12 %
2024	\$100,443	\$31,140	\$0	\$726	\$12,299	\$218,031	55.04 %
2025	\$120,010	\$32,075	\$0	\$892	\$8,551	\$235,624	61.30 %
2026	\$144,426	\$33,037	\$0	\$636	\$70,159	\$258,318	41.79 %
2027	\$107,939	\$34,028	\$0	\$657	\$31,032	\$218,968	50.96 %
2028	\$111,592	\$35,049	\$0	\$866	\$5,399	\$219,495	64.74 %
2029	\$142,108	\$36,100	\$0	\$1,121	\$0	\$247,217	72.54 %
2030	\$179,329	\$37,183	\$0	\$1,195	\$27,168	\$282,132	67.54 %
2031	\$190,539	\$38,299	\$0	\$1,354	\$16,277	\$290,937	73.53 %
2032	\$213,915	\$39,448	\$0	\$1,474	\$23,136	\$312,073	74.25 %
2033	\$231,701	\$40,631	\$0	\$1,502	\$37,427	\$327,653	72.15 %
2034	\$236,407	\$41,850	\$0	\$1,686	\$16,528	\$329,882	79.85 %
2035	\$263,415	\$43,106	\$0	\$1,524	\$67,247	\$354,632	67.90 %
2036	\$240,798	\$44,399	\$0	\$1,733	\$15,363	\$328,843	82.58 %
2037	\$271,567	\$45,731	\$0	\$2,022	\$5,581	\$356,704	87.96 %
2038	\$313,739	\$47,103	\$0	\$2,361	\$0	\$396,491	91.60 %
2039	\$363,203	\$48,516	\$0	\$2,605	\$15,329	\$444,265	89.81 %
2040	\$398,995	\$49,971	\$0	\$2,886	\$11,644	\$478,760	91.95 %
2041	\$440,208	\$51,470	\$0	\$2,984	\$39,662	\$519,194	87.64 %
2042	\$455,000	\$53,014	\$0	\$1,259	\$301,692	\$533,124	38.94 %
2043	\$207,581	\$54,605	\$0	\$1,569	\$10,783	\$278,756	90.75 %
2044	\$252,972	\$56,243	\$0	\$1,501	\$66,639	\$317,607	76.85 %
2045	\$244,077	\$57,930	\$0	\$1,201	\$101,424	\$301,339	66.96 %
2046	\$201,784	\$59,668	\$0	\$1,526	\$13,577	\$250,039	99.74 %
2040	γ201,704	55,008	ĻΟ	Υ <u>1,</u> 520	,10,017	÷250,039	55.74 /0



2.6 Funding Plan Cash Flow Projections

Full Funding Plan					
Year	2017	2018	2019	2020	2021
Percent Funded	13.75 %	8.09 %	8.78 %	18.71 %	31.81 %
Fully Funded Balance	\$127,394	\$156,848	\$148,531	\$145,037	\$155,269
Beginning Balance	\$1	\$17,515	\$12,695	\$13,034	\$27,135
Annual Contributions	\$25,320	\$26,080	\$26,862	\$27,668	\$28,498
Interest Earnings	\$34	\$0	\$0	\$92	\$244
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$7,840	\$30,900	\$26,523	\$13,659	\$6,484
Ending Balance	\$17,515	\$12,695	\$13,034	\$27,135	\$49,393

Expenses by Component & Year					
Components	2017	2018	2019	2020	2021
Asphalt: Resurface	\$0	\$0	\$0	\$0	\$0
Asphalt: Seal	\$0	\$0	\$0	\$0	\$6,484
Basketball Assembly: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Repair	\$0	\$0	\$0	\$0	\$0
Dock: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Swim Floats	\$0	\$0	\$0	\$0	\$0
Entry Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace Basket Ball Court	\$0	\$0	\$0	\$0	\$0
Gravel : Refurbish	\$0	\$0	\$0	\$2,185	\$0
Irrigation System: Repair	\$3,090	\$0	\$0	\$0	\$0
Irrigation: Replacement Project	\$0	\$10,300	\$0	\$0	\$0
Landscaping: Refurbish	\$0	\$0	\$5,305	\$0	\$0
Mower: Replace	\$0	\$0	\$0	\$0	\$0
Picnic Assets	\$0	\$0	\$0	\$0	\$0
Play Equipment: Rope Dome Replacement	\$0	\$0	\$0	\$0	\$0
Shed: Repair Allowance	\$4,750	\$0	\$0	\$0	\$0
Sport Court: Resurface	\$0	\$0	\$0	\$0	\$0
Sports Field: Refurbish Leveling & Reseeding	\$0	\$20,600	\$0	\$0	\$0
Storage Rack: Canoe and Peddle Boat	\$0	\$0	\$0	\$0	\$0
Swing Set Toy Structure: Replace	\$0	\$0	\$21,218	\$0	\$0
Swing Sets: Replace	\$0	\$0	\$0	\$0	\$0
Swing Sets: Replace	\$0	\$0	\$0	\$11,474	\$0



Full Funding Plan					
Year	2022	2023	2024	2025	2026
Percent Funded	43.49 %	51.12 %	55.04 %	61.30 %	41.79 %
Fully Funded Balance	\$173,797	\$196,486	\$218,031	\$235,624	\$258,318
Beginning Balance	\$49,393	\$75,587	\$100,443	\$120,010	\$144,426
Annual Contributions	\$29,353	\$30,233	\$31,140	\$32,075	\$33,037
Interest Earnings	\$423	\$593	\$726	\$892	\$636
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$3,582	\$5,970	\$12,299	\$8,551	\$70,159
Ending Balance	\$75,587	\$100,443	\$120,010	\$144,426	\$107,939

Expenses by Component & Year Components	2022	2023	2024	2025	2026
Asphalt: Resurface	\$0	\$0	\$0	\$0	\$62,642
Asphalt: Seal	\$0	\$0	\$0	\$0	\$7,517
Basketball Assembly: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Repair	\$0	\$0	\$0	\$0	\$0
Dock: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Swim Floats	\$0	\$0	\$0	\$0	\$0
Entry Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace Basket Ball Court	\$0	\$0	\$0	\$0	\$0
Gravel : Refurbish	\$0	\$0	\$0	\$2,534	\$0
Irrigation System: Repair	\$3,582	\$0	\$0	\$0	\$0
Irrigation: Replacement Project	\$0	\$0	\$0	\$0	\$0
Landscaping: Refurbish	\$0	\$5,970	\$0	\$0	\$0
Mower: Replace	\$0	\$0	\$12,299	\$0	\$0
Picnic Assets	\$0	\$0	\$0	\$0	\$0
Play Equipment: Rope Dome Replacement	\$0	\$0	\$0	\$0	\$0
Shed: Repair Allowance	\$0	\$0	\$0	\$6,017	\$0
Sport Court: Resurface	\$0	\$0	\$0	\$0	\$0
Sports Field: Refurbish Leveling & Reseeding	\$0	\$0	\$0	\$0	\$0
Storage Rack: Canoe and Peddle Boat	\$0	\$0	\$0	\$0	\$0
Swing Set Toy Structure: Replace	\$0	\$0	\$0	\$0	\$0
Swing Sets: Replace	\$0	\$0	\$0	\$0	\$0
Swing Sets: Replace	\$0	\$0	\$0	\$0	\$0



Full Funding Plan					
Year	2027	2028	2029	2030	2031
Percent Funded	50.96 %	64.74 %	72.54 %	67.54 %	73.53 %
Fully Funded Balance	\$218,968	\$219,495	\$247,217	\$282,132	\$290,937
Beginning Balance	\$107,939	\$111,592	\$142,108	\$179,329	\$190,539
Annual Contributions	\$34,028	\$35,049	\$36,100	\$37,183	\$38,299
Interest Earnings	\$657	\$866	\$1,121	\$1,195	\$1,354
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$31,032	\$5,399	\$0	\$27,168	\$16,277
Ending Balance	\$111,592	\$142,108	\$179,329	\$190,539	\$213,915

Expenses by Component & Year								
Components	2027	2028	2029	2030	2031			
Asphalt: Resurface	\$0	\$0	\$0	\$0	\$0			
Asphalt: Seal	\$0	\$0	\$0	\$0	\$8,714			
Basketball Assembly: Replace	\$0	\$0	\$0	\$3,671	\$0			
Dock: Repair	\$4,032	\$0	\$0	\$4,406	\$0			
Dock: Replace	\$0	\$0	\$0	\$0	\$0			
Dock: Replace	\$0	\$0	\$0	\$0	\$0			
Dock: Swim Floats	\$16,127	\$0	\$0	\$0	\$0			
Entry Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$0			
Fence: Chainlink, Replace	\$0	\$0	\$0	\$0	\$0			
Fence: Chainlink, Replace Basket Ball Court	\$0	\$0	\$0	\$0	\$0			
Gravel : Refurbish	\$0	\$0	\$0	\$2,937	\$0			
Irrigation System: Repair	\$4,153	\$0	\$0	\$0	\$0			
Irrigation: Replacement Project	\$0	\$0	\$0	\$0	\$0			
Landscaping: Refurbish	\$6,720	\$0	\$0	\$0	\$7,563			
Mower: Replace	\$0	\$0	\$0	\$0	\$0			
Picnic Assets	\$0	\$0	\$0	\$0	\$0			
Play Equipment: Rope Dome Replacement	\$0	\$0	\$0	\$0	\$0			
Shed: Repair Allowance	\$0	\$0	\$0	\$0	\$0			
Sport Court: Resurface	\$0	\$0	\$0	\$16,154	\$0			
Sports Field: Refurbish Leveling & Reseeding	\$0	\$0	\$0	\$0	\$0			
Storage Rack: Canoe and Peddle Boat	\$0	\$5,399	\$0	\$0	\$0			
Swing Set Toy Structure: Replace	\$0	\$0	\$0	\$0	\$0			
Swing Sets: Replace	\$0	\$0	\$0	\$0	\$0			
Swing Sets: Replace	\$0	\$0	\$0	\$0	\$0			



Full Funding Plan					
Year	2032	2033	2034	2035	2036
Percent Funded	74.25 %	72.15 %	79.85 %	67.90 %	82.58 %
Fully Funded Balance	\$312,073	\$327,653	\$329,882	\$354,632	\$328,843
Beginning Balance	\$213,915	\$231,701	\$236,407	\$263,415	\$240,798
Annual Contributions	\$39,448	\$40,631	\$41,850	\$43,106	\$44,399
Interest Earnings	\$1,474	\$1,502	\$1,686	\$1,524	\$1,733
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$23,136	\$37,427	\$16,528	\$67,247	\$15,363
Ending Balance	\$231,701	\$236,407	\$263,415	\$240,798	\$271,567

Expenses by Component & Year					
Components	2032	2033	2034	2035	2036
Asphalt: Resurface	\$0	\$0	\$0	\$0	\$0
Asphalt: Seal	\$0	\$0	\$0	\$0	\$10,102
Basketball Assembly: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Repair	\$0	\$4,814	\$0	\$0	\$5,261
Dock: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Swim Floats	\$0	\$0	\$0	\$0	\$0
Entry Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace	\$18,322	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace Basket Ball Court	\$0	\$0	\$0	\$0	\$0
Gravel : Refurbish	\$0	\$0	\$0	\$3,405	\$0
Irrigation System: Repair	\$4,814	\$0	\$0	\$0	\$0
Irrigation: Replacement Project	\$0	\$0	\$0	\$0	\$0
Landscaping: Refurbish	\$0	\$0	\$0	\$8,512	\$0
Mower: Replace	\$0	\$0	\$16,528	\$0	\$0
Picnic Assets	\$0	\$24,991	\$0	\$0	\$0
Play Equipment: Rope Dome Replacement	\$0	\$0	\$0	\$37,454	\$0
Shed: Repair Allowance	\$0	\$7,622	\$0	\$0	\$0
Sport Court: Resurface	\$0	\$0	\$0	\$0	\$0
Sports Field: Refurbish Leveling & Reseeding	\$0	\$0	\$0	\$0	\$0
Storage Rack: Canoe and Peddle Boat	\$0	\$0	\$0	\$0	\$0
Swing Set Toy Structure: Replace	\$0	\$0	\$0	\$0	\$0
Swing Sets: Replace	\$0	\$0	\$0	\$17,876	\$0
Swing Sets: Replace	\$0	\$0	\$0	\$0	\$0



Full Funding Plan					
Year	2037	2038	2039	2040	2041
Percent Funded	87.96 %	91.60 %	89.81 %	91.95 %	87.64 %
Fully Funded Balance	\$356,704	\$396,491	\$444,265	\$478,760	\$519,194
Beginning Balance	\$271,567	\$313,739	\$363,203	\$398,995	\$440,208
Annual Contributions	\$45,731	\$47,103	\$48,516	\$49,971	\$51,470
Interest Earnings	\$2,022	\$2,361	\$2,605	\$2,886	\$2,984
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$5,581	\$0	\$15,329	\$11,644	\$39,662
Ending Balance	\$313,739	\$363,203	\$398,995	\$440,208	\$455,000

Expenses by Component & Year					
Components	2037	2038	2039	2040	2041
Asphalt: Resurface	\$0	\$0	\$0	\$0	\$0
Asphalt: Seal	\$0	\$0	\$0	\$0	\$11,711
Basketball Assembly: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Repair	\$0	\$0	\$5,748	\$0	\$0
Dock: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Replace	\$0	\$0	\$0	\$0	\$0
Dock: Swim Floats	\$0	\$0	\$0	\$0	\$0
Entry Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$18,295
Fence: Chainlink, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace Basket Ball Court	\$0	\$0	\$0	\$0	\$0
Gravel : Refurbish	\$0	\$0	\$0	\$3,947	\$0
Irrigation System: Repair	\$5,581	\$0	\$0	\$0	\$0
Irrigation: Replacement Project	\$0	\$0	\$0	\$0	\$0
Landscaping: Refurbish	\$0	\$0	\$9,581	\$0	\$0
Mower: Replace	\$0	\$0	\$0	\$0	\$0
Picnic Assets	\$0	\$0	\$0	\$0	\$0
Play Equipment: Rope Dome Replacement	\$0	\$0	\$0	\$0	\$0
Shed: Repair Allowance	\$0	\$0	\$0	\$0	\$9,656
Sport Court: Resurface	\$0	\$0	\$0	\$0	\$0
Sports Field: Refurbish Leveling & Reseeding	\$0	\$0	\$0	\$0	\$0
Storage Rack: Canoe and Peddle Boat	\$0	\$0	\$0	\$7,697	\$0
Swing Set Toy Structure: Replace	\$0	\$0	\$0	\$0	\$0
Swing Sets: Replace	\$0	\$0	\$0	\$0	\$0
Swing Sets: Replace	\$0	\$0	\$0	\$0	\$0



Full Funding Plan					
Year	2042	2043	2044	2045	2046
Percent Funded	38.94	90.75	76.85	66.96	99.74
Fully Funded Balance	\$533,124	\$278,756	\$317,607	\$301,339	\$250,039
Beginning Balance	\$455,000	\$207,581	\$252,972	\$244,077	\$201,784
Annual Contributions	\$53,014	\$54,605	\$56,243	\$57,930	\$59,668
Interest Earnings	\$1,259	\$1,569	\$1,501	\$1,201	\$1,526
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$301,692	\$10,783	\$66,639	\$101,424	\$13,577
Ending Balance	\$207,581	\$252,972	\$244,077	\$201,784	\$249,401

Expenses by Component & Year					
Components	2042	2043	2044	2045	2046
Asphalt: Resurface	\$0	\$0	\$0	\$0	\$0
Asphalt: Seal	\$0	\$0	\$0	\$0	\$13,577
Basketball Assembly: Replace	\$0	\$0	\$0	\$5,720	\$0
Dock: Repair	\$6,281	\$0	\$0	\$6,864	\$0
Dock: Replace	\$92,126	\$0	\$0	\$0	\$0
Dock: Replace	\$196,815	\$0	\$0	\$0	\$0
Dock: Swim Floats	\$0	\$0	\$0	\$0	\$0
Entry Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace Basket Ball Court	\$0	\$0	\$0	\$35,074	\$0
Gravel : Refurbish	\$0	\$0	\$0	\$4,576	\$0
Irrigation System: Repair	\$6,470	\$0	\$0	\$0	\$0
Irrigation: Replacement Project	\$0	\$0	\$0	\$0	\$0
Landscaping: Refurbish	\$0	\$10,783	\$0	\$0	\$0
Mower: Replace	\$0	\$0	\$22,213	\$0	\$0
Picnic Assets	\$0	\$0	\$0	\$0	\$0
Play Equipment: Rope Dome Replacement	\$0	\$0	\$0	\$0	\$0
Shed: Repair Allowance	\$0	\$0	\$0	\$0	\$0
Sport Court: Resurface	\$0	\$0	\$0	\$25,167	\$0
Sports Field: Refurbish Leveling & Reseeding	\$0	\$0	\$0	\$0	\$0
Storage Rack: Canoe and Peddle Boat	\$0	\$0	\$0	\$0	\$0
Swing Set Toy Structure: Replace	\$0	\$0	\$44,426	\$0	\$0
Swing Sets: Replace	\$0	\$0	\$0	\$0	\$0
Swing Sets: Replace	\$0	\$0	\$0	\$24,023	\$0



3. Physical Analysis

We completed a site visit as part of this reserve study on 9/20/2016. Table 2 below shows all the components considered for funding and explains the basis of the funding decision.

3.1 Table 2: Component Funding Basis

Component	Condition	Funding Basis
Asphalt: Resurface	Fair	Funded based on current condition
Asphalt: Seal	Fair	Funded based on the typical life expectancy
Basketball Assembly: Replace	Good	Funded based on the typical life expectancy
Dock: Repair	Good	Funded based on current condition
Dock: Replace	Excellent	Funded based on current condition
Dock: Replace	Excellent	Funded based on current condition
Dock: Swim Floats	Good	Funded based on the typical life expectancy
Drainage	Functional	Unfunded due to unpredictable nature of component
Entry Monument: Repair/Replace	Good	Funded based on Association records
Fence: Chainlink, Replace	Good	Funded based on the typical life expectancy
Fence: Chainlink, Replace Basket Ball Court	Good	Funded based on the typical life expectancy
Gravel : Refurbish	Fair	Unfunded operating expense
Irrigation System: Repair	Functional	Funded for repair
Irrigation: Replacement Project	Poor	Funded for repair
Landscaping: Refurbish	Fair	Funded based on current condition
Lights: Pole, Replace		Unfunded, not Association responsibility
Mailbox Cluster: Replace	Functional	Unfunded, not Association responsibility
Mower: Replace	Good	Funded based on the typical life expectancy
Picnic Assets	Assorted Condition	Funded based on the typical life expectancy
Play Equipment: Rope Dome Replacement	Good	Funded based on Association records
Shed: Repair Allowance	Assorted Condition	Funded for repair
Signs / Pet Stations: Replace	Good	Unfunded operating expense
Sport Court: Resurface	Good	Funded based on Association records
Sports Field: Refurbish Leveling & Reseeding	Poor	Funded for repair
Storage Rack: Canoe and Peddle Boat	Fair	Funded based on Association records
Streets		Unfunded, not Association responsibility
Swing Set Toy Structure: Replace	Functional	Funded based on Association records
Swing Sets: Replace	Fair	Funded based on Association records
Swing Sets: Replace	Fair	Funded based on Association records



3.2 Table 3: Component Metrics

Component	FFB	% FFB	Annual Cost	% Annual Cost
Asphalt: Resurface	\$39,368	30.90%	\$960	1.97%
Asphalt: Seal	\$1,152	0.90%	\$1,152	2.36%
Basketball Assembly: Replace	\$333	0.26%	\$167	0.34%
Dock: Repair	\$0	0.00%	\$1,000	2.05%
Dock: Replace	\$0	0.00%	\$1,760	3.61%
Dock: Replace	\$0	0.00%	\$3,760	7.72%
Dock: Swim Floats	\$6,000	4.71%	\$600	1.23%
Entry Monument: Repair/Replace	\$360	0.28%	\$360	0.74%
Fence: Chainlink, Replace	\$5,880	4.62%	\$392	0.80%
Fence: Chainlink, Replace Basket Ball Court	\$1,022	0.80%	\$511	1.05%
Gravel : Refurbish	\$800	0.63%	\$400	0.82%
Irrigation System: Repair	\$3,090	2.43%	\$618	1.27%
Irrigation: Replacement Project	\$5,000	3.92%	\$10,000	20.52%
Landscaping: Refurbish	\$2,500	1.96%	\$1,250	2.57%
Mower: Replace	\$3,000	2.35%	\$1,000	2.05%
Picnic Assets	\$5,607	4.40%	\$623	1.28%
Play Equipment: Rope Dome Replacement	\$6,160	4.84%	\$880	1.81%
Shed: Repair Allowance	\$4,750	3.73%	\$594	1.22%
Sport Court: Resurface	\$1,467	1.15%	\$733	1.51%
Sports Field: Refurbish Leveling & Reseeding	\$10,000	7.85%	\$20,000	41.05%
Storage Rack: Canoe and Peddle Boat	\$325	0.26%	\$325	0.67%
Swing Set Toy Structure: Replace	\$18,400	14.44%	\$800	1.64%
Swing Sets: Replace	\$2,940	2.31%	\$420	0.86%
Swing Sets: Replace	\$9,240	7.25%	\$420	0.86%
Current Fully Funded Balance	\$127,394		\$48,725	Per Year
Current Reserve Fund Deficit/Surplus	(\$127,394)		\$4,060	Per Month

This table shows metric information regarding the influence each component has on the fully funded balance and contribution requirements.



3.3 Component Details

Site/Grounds - Asphalt: Resurface

Location: Christopher Park

Quantity: 19204 Square Feet

UL: 50

RUL: 9

Current Cost: \$48,010

Condition: Fair

Funding Basis: Funded based on current condition



Fair condition of asphalt, with no unusual cracking, waviness or deterioration noted. We recommend regular cycles of repair and seal coat to maximize the life of the asphalt. Reserve funding recommended for eventual overlay.

Site/Grounds - Asphalt: Seal

Location: Christopher Park Quantity: 19204 Square Feet UL: 5 RUL: 4 Current Cost: \$5,761 Condition: Fair Funding Basis: Funded based on the typical life expectancy



Generally fair condition of asphalt surface with some localized areas that are dry and faded. We recommend regular seal cycles be completed to maximize the life of asphalt. Seal coat and crack filler protects against damaging elements, such as oil, water, UV, etc. As routine maintenance ensure that oil spills are promptly cleaned and drains and grates are free of debris and properly functioning. Reserve funding recommended for regular cycles of seal coat and local areas of repair every 5 years.

Recreation - Basketball Assembly: Replace

Location:	Park
Quantity:	2 Each
UL:	15
RUL:	13
Current Cost:	\$2,500
Condition:	Good
Funding Basis:	Funded based on the typical life



Good condition with no unusual deterioration or damage. We recommend funding for replacement of the assembly to ensure functionality.

Site/Grounds - Dock: Repair

Quantity: 1 Allowance

expectancy



Condition: Good

Funding Basis: Funded based on current condition

RUL: 10 Current Cost: \$3,000.00

We recommend a detailed inspection every 3-5 years due to the life safety nature of this component. Funding for repair allowance reccommended.

Site/Grounds - Dock: Replace

Location: West Side Park

Quantity: 220 Square Feet

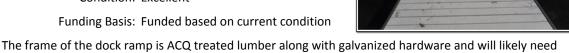
UL: 25

RUL: 25

Current Cost: \$44,000

Condition: Excellent

Funding Basis: Funded based on current condition



replacement in the next 25 years. Reserve funding recommended.

Site/Grounds - Dock: Replace

Quantity: 425 Square Feet	UL: 25
Condition: Excellent	RUL: 25
Funding Basis: Funded based on current condition	Current Cost: \$94,000.00

The frame of the dock ramp is ACQ treated lumber along with galvanized hardware and its likely replacement time is 25 years. Reserve funding recommended.

Site/Grounds - Dock: Swim Floats

Location: Christopher Park	
Quantity: 3 Unit	
UL: 20	
RUL: 10	
Current Cost: \$12,000	
Condition: Good	
Funding Basis: Funded based on the typical life expectancy	

Swim rafts are generally long lasting apart from ice and storm damage near shallow water. Reserve funding reccomended based on average life of the three existing floats.

Site/Grounds - Drainage



Current Cost:

Condition: Functional

Funding Basis: Unfunded due to unpredictable nature of component



No reported problems or history of drainage concerns. We suggest regular cleaning and inspection take place to ensure that Association drainage/storm drainage system is functioning properly. No funding at this time, update as needed in future reserve studies.

Site/Grounds - Entry Monument: Repair/Replace

Location: Entry Quantity: 1 Allowance UL: 25 RUL: 24 Current Cost: \$9,000

Condition: Good

Funding Basis: Funded based on Association records



Front signage does have repair maintenance scheduled. Extent of planned rehab is unknown at this current time. Funding for replacement of the letters and general refurbishment cycles in the future is reccommended.

Site/Grounds - Fence: Chainlink, Replace

Location: Christopher Park & Ballfield Park & West Side Park

Quantity: 588 Linear Feet

UL: 30

RUL: 15

Current Cost: \$11,760

Condition: Good

Funding Basis: Funded based on the typical life expectancy

Fair condition of the chain link fencing. The life expectancy of these units are approximately 30 years. Reserve funding recommended.

Site/Grounds - Fence: Chainlink, Replace Basket Ball Court





Location: Ball Field Park Quantity: 438 Linear Feet UL: 30 RUL: 28 Current Cost: \$15,330 Condition: Good Funding Basis: Funded based on the typical life expectancy



Good condition of the chain link fencing. The life expectancy of these units are approximately 30 years. Reserve funding recommended.

Site/Grounds - Gravel : Refurbish

Location: Throughout

Quantity: 1 Allowance

UL: 5

RUL: 3

Current Cost: \$2,000

Condition: Fair

Funding Basis: Unfunded operating expense



Various conditions noted. We suggest including the gravel areas within the landscape contract to provide proactive maintenance, but at this time plan for reserve funding.

Site/Grounds - Irrigation System: Repair

Location: Tot Lot & West Side Quantity: 1 Allowance UL: 5 RUL: 0 Current Cost: \$3,090 Condition: Functional

Funding Basis: Funded for repair



Fair condition with a reported planned repair project in 2017. We suggest including irrigation maintenance within the Association's annual landscape budget/contract, such as select sprinkler head replacements. As the community and irrigation lines age, local areas of line replacement may be needed and generally is not covered by the landscape contract. At this time there is no expectation of total line replacement, however, we have included an allowance for partial repair/replacement every few years. As these expenses occur and trends are developed update the reserve funding as needed.

Site/Grounds - Irrigation: Replacement Project



Location: Ball Field Park Quantity: 1 Allowance RUL: 1 Current Cost: \$10,000 Condition: Poor Funding Basis: Funded for repair



Poor condition with system failure problems reported at this time. The budget of \$10,000 is a placeholder and it is strongly recommended that a project scope of work is developed with an irrigation contractor. We would advise to consider work in 2018 in conjunction the ball field reseeding project to streamline costs.

Site/Grounds - Landscaping: Refurbish

Location: Throughout Quantity: 1 Allowance UL: 4 RUL: 2 Current Cost: \$5,000 Condition: Fair Funding Basis: Funded based on current condition



This component may be used to fund large landscape projects not budgeted within the operating funds. This expense may vary greatly depending on the desires of the board. We suggest starting with an allowance every few years to complete cycles of refurbishment such as replanting's, bark mulch etc.

Site/Grounds - Lights: Pole, Replace

Location: Throughout

Current Cost:

Funding Basis: Unfunded, not Association responsibility



We understand the pole lights throughout the Association and adjacent to the streets/sidewalks are the responsibility of the Public, not the Association. Therefore, no reserve funding required.

Site/Grounds - Mailbox Cluster: Replace



Location: Throughout

Current Cost:

Condition: Functional

Funding Basis: Unfunded, not Association responsibility



It is our understanding that mailbox clusters throughout the community are homeowner responsibility.

Quantity: 1 Unit	UL: 10
Condition: Good	RUL: 7
Funding Basis: Funded based on the typical life expectancy	Current Cost: \$10,000.00

With routine maintenance(winterization) lawn mower should last typically 8-10 years. Funding for replacement is recommended.

Site/Grounds - Picnic Assets

Location: Tot Lot, West Side, Christopher Park

Quantity: 1 Allowance

UL: 25

RUL: 16

Current Cost: \$15,574

Condition: Assorted Condition

Funding Basis: Funded based on the typical life expectancy



Good to Fair condition of the picnic assets. Concrete picnic tables, steel benches and wood beam talbes are very durable long life items. These units should be maintained as needed utilizing the operating budget. This component includes funding for repair/replacement every 20-25 years.

Recreation - Play Equipment: Rope Dome Replacement

Location:	Tot Lot Park
Quantity:	1 Unit
UL:	25
RUL:	18
Current Cost:	\$22,000
Condition:	Good

Funding Basis: Funded based on Association records



Good condition with no structural instability or unusual deterioration noted during our inspection. Inspect regularly and refurbish fall zones and repair nylon junctions or cables breakage as needed utilizing the operating budget. Reserve funding recommended for full replacement.

Building - Shed: Repair Allowance



Location: Christopher Park

Quantity: 1 Allowance

UL: 8

RUL: 0

Current Cost: \$4,750

Condition: Assorted Condition

Funding Basis: Funded for repair



The shed appears to be in overall fair condition with the exception of the allowance for repair/replacement to the doors. Doors are scheduled for replacement in 2016. Windows and siding are rapidly reaching their expiration date and should be considered within the next 8 years. Reserve funding recommended.

Site/Grounds - Signs / Pet Stations: Replace

Location: Parks Quantity: 5 Items

Current Cost:

Condition: Good

Funding Basis: Unfunded operating expense



Fair condition with no damage or concerns at this time. We understand there is no expectation to replace at one time, therefore, no reserve funding. Treat as a maintenance item.

Recreation - Sport Court: Resurface

Location: Ball Field Park Quantity: 1 Allowance UL: 15 RUL: 13 Current Cost: \$11,000 Condition: Good



Good condition of sport court surface, top coat applied last in 2012 at an expense of \$11,000. Best to plan for cycles of 10-15 years. Update in future reserve studies as condition merit. The asphalt may require patching or overlay, however, at this time it is unpredictable. No concerns of roots, cracking or damage noted at this time. This could be a significant expense therefore monitor into the future and update as needed.

Site/Grounds - Sports Field: Refurbish Leveling & Reseeding

Funding Basis: Funded based on Association records



Location: Ball Field Park Quantity: 1 Allowance RUL: 1 Current Cost: \$20,000 Condition: Poor Funding Basis: Funded for repair



Poor condition of the ball field. Turf level condition is not covered by the landscape contract. At this time there are reported holes throughtout the field and turf is in disrepair. We have included an allowance of \$10,000 for a place holder until bids are recieved for releveling and reseeding of surface. We advise this work be done in conjunction with the irrigation projects on same ball field.

Site/Grounds - Storage Rack: Canoe and Peddle Boat

Location: Ken Lake Quantity: 3 Unit UL: 12 RUL: 11 Current Cost: \$3,900 Condition: Fair Funding Basis: Funded based on Association records



Accoding to provided information peddle boat storage racks were replaced in 2016 and 2015; as well the canoe rack was replaced in 2012. Funding for replacement can vary widely based on product construction. Funding for replacement every 10-12 years till a more durable aluminum storage systems are incorporated is reccommended.

Site/Grounds - Streets

Current Cost:

Funding Basis: Unfunded, not Association responsibility



We understand that the streets have been transferred to the Public so there is no Association responsibility.

Recreation - Swing Set Toy Structure: Replace



Location: Tot Lot Quantity: 1 Unit UL: 25 RUL: 2 Current Cost: \$20,000 Condition: Functional Funding Basis: Funded based on Association records



Older condition with instability noted during our inspection. The typical replacement cost will vary but to match previously donated equipment should range into the \$20,000 based on aesthetic preference. Reserve funding recommended.

Recreation - Swing Sets: Replace	
Quantity: 1 Allowance	UL: 25
Condition: Fair	RUL: 18
Funding Basis: Funded based on Association records	Current Cost: \$10,500.00
Replaced last in 2009 at an expense of \$10,000.	
Recreation - Swing Sets: Replace	
Quantity: 1 Allowance	UL: 25
Condition: Fair	RUL: 3
Funding Basis: Funded based on Association records	Current Cost: \$10,500.00
Penlaged last in 1002 at an expanse of \$12,000	

Replaced last in 1993 at an expense of \$12,000.



4. How to Read Your Reserve Study

This reserve study is an important planning tool that contains long-term common area replacement and financial recommendations for your Association. In order to accomplish this, we provide you with critical information that should be considered when evaluating the current health of your reserve fund, future maintenance, repair and replacement expenses and reserve contribution rates to include within the regular unit owner assessments. With the use of this reserve study your Association will be better prepared for present and future expenses.

We have worked to identify your common area assets, called **components**, which have maintenance or replacement expenses that can be anticipated. Our recommendations should help to minimize deferred maintenance and special assessments, as well as maximize your property value.

Having properly funded reserves enables the Association to keep the common area assets in good condition. When potential buyers consider which association to purchase a home in, the overall condition of the association and reserve fund may be considered. Having good financials, maintenance, and curb appeal, all work together to increase your property value.

We know that your needs are different from the needs of others. Therefore, we have created this report specifically for your Association. When possible, we have had discussions with the Association Board of Directors, vendors and professional management to provide recommendations that will help you meet your Association's goals and objectives.

4.1 About Reserve Studies

By definition a reserve study is a budget planning tool. It identifies the current status of the reserve fund with a stable and equitable funding plan, to offset the anticipated future major common area expenditures. Plainly, a reserve study is a long term plan that indicates how much money needs to be set aside to pay for future expenses. The reserve study consists of two parts: the physical analysis and financial analysis.

The **physical analysis** identifies which components are appropriate for reserve funding and the current physical condition assessment of each asset; then indicates the life expectancy or useful life of the component as well as the life remaining or remaining useful life of each component. The physical analysis is concluded with the current cost to replace each component. The physical analysis information is used within the financial analysis. Therefore, it generally contains many recommendations and justifications regarding component repair, maintenance and replacement recommendations as well as cost and life cycles.

The **financial analysis** includes two results. First, it reveals the health of the reserve fund. This is completed by determining the current status of the reserve fund known as percent funded. The second result is the reserve contribution recommendation. Using the information contained within the physical analysis, the future expected expenses are analyzed and reviewed. Then multi-year funding plans are developed to meet various funding goals. The reserve contributions required to meet the funding goal desired is then presented and recommended to the Association.

4.2 Reserve Study Levels

• Level I: Full Reserve Study Funding Analysis and Plan. This is the most labor intensive reserve study, as it includes both a physical and financial analysis. The component inventory list and current component condition assessments with life and valuation estimates are determined from an on-site visual inspection. This information is used to conduct the financial analysis, which includes the current fund status and a recommended funding plan. A "Full Reserve Study" is recommended when a previous reserve study is not available, a substantial time has elapsed since the last study (7-10)



years), or there are concerns with an existing reserve study's component inventory or measurements.

- Level II: Update with Visual Site Inspection. This report updates both the physical analysis and financial analysis of an existing report. An on-site visual inspection is conducted to verify and/or make adjustments to the existing component list, condition assessments, useful life and component valuation estimates. The financial analysis is also updated, including the current fund status and recommended funding plan. A level II report is recommended at least every three years, before and after major projects and as required by state law.
- Level III: Update with No Visual Site Inspection. This report updates the financial analysis of an existing reserve study only. No on-site visual inspection is completed. An existing fund status and funding plan is updated using research conducted with board members, vendors, association managers and information contained within a prior reserve study. A level III report is recommended to review, adjust and verify that the existing funding plan is accurate and suitable for current economic conditions. A level III report is recommended at least annually.

4.3 Percent Funded

Percent funded is a way to measure the strength of the reserve fund. The Community Associations Institute (CAI) defines "Percent Funded" as "the ratio, at a particular point of time, of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage." The **fully funded balance** is the total accrued depreciation or deterioration of the component(s). This balance is the cost of how much life has been used up. The fully funded balance is then used as an indicator against which the actual (or projected) reserve fund balance can be compared; known as percent funded.

For example, if an association were to replace interior carpeting in 10 years at an expense of \$10,000; then each year the cost of deterioration is 1/10th of the replacement cost. Therefore, each year \$1,000 of cost is accrued. In year 2, the fully funded balance would be \$2,000. In year 5, the cost of existing deterioration is \$5,000, and so on. To determine the percent funded, the FFB is compared to the reserve fund balance. To continue the above example, the association has \$2,000 in their reserve fund in year 2. The total accrued deterioration or FFB is \$2,000, therefore they are 100% funded. The association has saved 100% of the accrued deterioration or fully funded balance. If they have set aside only \$1,000, the association is 50% funded, having saved 50% of the existing deterioration or cost.

Using Percent Funded to Measure Strength

- **0-30% Funded is a "weak" status.** There is a lack of funds reserved toward the amount of accrued deterioration. Whenever an association has a weak status there is an increased possibility of requiring special assessments, loans or deferred maintenance.
- **31-69% Funded is a "fair" status.** There is a decreased chance of requiring special assessments or deferred maintenance, however, cash flow problems may very easily arise.
- **70-100% Funded is a "strong" status.** Associations in this range generally have financial stability. There are generally no cash flow issues, special assessments or deferred maintenance necessary.
- **100% Funded is known as "ideal."** The reserve fund balance equals the fully funded balance. This is "ideal" because funds are reserved as components are used. It is thought to be the most fair for members because they pay as they go, or they pay their share.

Use Caution When Using Percent Funded

Percent funded is a ratio and therefore does not convey the urgency that is often times required. There are two aspects that need to be considered when evaluating the urgency of the current situation, the time remaining before an expense is scheduled to occur, as well as the cost of the expense.



The first aspect that percent funded does not consider is the time remaining before the expense is to occur. Use the same carpet replacement example (\$10,000 carpet expense to be saved over 10 years). If, in year 5 they have only saved \$2,500 they are 50% funded (remember the total accrued deterioration or FFB would be \$5,000). To have the capital required to complete the project as scheduled in year 10 for \$10,000, they would need to save \$1,500 each year for the next 5 years.

Changing the time frames, if in year 10 they have set aside \$5,000, they would still be 50% funded (having saved 50% of the total accrued deterioration of \$10,000). However, they now need to attain \$5,000 of the required \$10,000 expense immediately rather than over a period of time.

These examples show that the percent funded ratio lacks the urgency that each association may have in attaining the rest of the financing.

Percent funded also does not consider the cost of the expense. Using the same 10 year cycle, changing the cost of the required expense from \$10,000 to a \$30,000 paint project, in year 5 the association is 50% funded by having set aside \$15,000. In this case, they must save \$3,000 each year, not \$1,500. If in year 10, they are 50% funded, they would need to save \$15,000 not \$5,000. Notice how the percent funded is the same, but the amount needed to meet the financial obligation is very different.

Percent funded is a very useful ratio, however, it must be placed in context. Remember to evaluate not only the percent funded but also the cash balance and size of the upcoming expenditures as well.

4.4 Reserve Funding Plans & Goals

To determine the contribution rate to the reserve fund, the association needs to determine their reserve fund goal. This may be based on a number of objectives and analysis' corresponding to the reserve fund. There are three different funding goals associations may choose based on their risk tolerance:

- **Baseline Funding Goal** This sets the reserve contribution amount as low as possible without the reserve fund dropping below a zero balance. This is the most risky method with the least contributed to the reserve fund. If an expense arrives early, or unexpected, there is a significant chance of needing a special assessment or loan.
- **Threshold Funding Goal** The goal of Threshold Funding is to set the reserve contribution amount to meet a specified goal. Common goals to achieve and maintain are 70 Percent Funded, to maintain a cash-balance of 15% of the prior year's expenses, or to maintain a minimum cash-balance of the prior year's reserve contribution amount.
- **Full Funding Goal** Sets the goal at being fully funded. This plan sets the reserve contribution amount to achieve a fully funded balance. Fully funded is achieved when the percent funded is 100%. It requires the largest contribution to the reserve fund of the three goals, but is also the least risky.

4.5 Reserve Contributions

There are three ways to contribute to your Reserve Account:

• **Regular Contributions:** If adequate regular contributions are not established the reserve fund will eventually be underfunded. An underfunded reserve account leads to deferred maintenance and potentially extensive repair. As already mentioned, the effects of deferred maintenance and extensive repair are significantly more than routine or preventative maintenance. Additionally, it is the most fair and equitable to the association members. If reserve contributions are not set properly, whether too high or low, the individuals who use the asset will not be paying for it. If the contributions are set too high, current owners are paying for what future owners should pay for.

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Likewise, when contributions are set too low, future owners will pay for what current owners should have paid for. Having properly set reserve contributions is the most fair for everyone involved.

- **Special Assessments:** If the reserve fund is underfunded at the time an expense is required, the association is forced to hold a special assessment. Most often, this occurs when deferred maintenance catches up and the association is forced to deal with it. It is better to have a small monthly increase now rather than a very large and unexpected increase later.
- **Loans:** If the association members do not have the finances to contribute to a special assessment or the required repairs are too extensive and costly for a special assessment, a loan may be required. This not only requires a monthly increase in dues, but members are then paying for past as well as future expenses, rather than just future expenses. The future still needs to be anticipated and saved for.

4.6 Reserve Components

The components of a reserve study have significant impact on the accuracy of the report. If items are improperly included or excluded from the reserve study, then the projected expenses and subsequent required reserve contributions will likewise be affected. Before a component is included within the reserve study, it is evaluated and qualified using a nationally recognized four-part test:

- **Common Area:** The component must be association responsibility; limited common areas may be included.
- Limited Useful Life: The life of the component must be limited.
- **Predictable Life:** The limited life must be predictable.
- **Minimum Threshold Cost:** Generally greater than 1% of the annual operating budget or \$1,000 whichever is greater.

Repairs or replacements of components that are predicted to have an estimated remaining useful life exceeding this 30-year report period are generally not included. Items that are below the minimum threshold cost, or reoccur annually are generally included within the annual operating budget. Expenses that are necessitated by acts of nature, accidents or other occurrences that are more properly insured for, rather than reserved for, are also excluded.

Maintaining Components

There are three ways to manage capital reserve expenses:

- **Preventative Maintenance:** This is the most effective way to extend the useful life of components and save money in the long run, as it is a proactive maintaining of components. The cost of maintaining the condition and quality of a component is much less than repair or replacing the component to bring it back to a usable condition and may also prolong the life expectancy of an asset.
- **Deferred Maintenance:** This is deferring routine maintenance rather than completing maintenance as recommended. A common household example of this is deferring the oil changes in a vehicle. Deferred maintenance is likely the first indication of, and results in, having inadequate reserve funds. While in the short run the association is contributing less money, the effects of deferring maintenance and the costs associated with it are far greater than the cost of preventative maintenance.
- Extensive Repair or Replacement: This is when a component needs to have significant repair(s) completed or even replacement prior than anticipated. While not always, this is generally a result of deferred maintenance. The cost of significant repair or advanced replacement is not only expensive, it also decreases association morale through poor association management, poor curb appeal and out of commission assets.

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4.7 Implementing Your Reserve Study

- **Step 1 Understand:** The board of directors has the responsibility to lead the association, therefore, the first step is for the board to hold a meeting. This meeting should discuss the results of the reserve study in order for the Board to better understand the current position of the association and the upcoming reserve requirements of the association.
- **Step 2 Plan:** The board should then create a plan to determine how best to manage the association's common area assets and financial position. Using this reserve study as a guide, the board should make the adjustments required to meet the needs of the association and its members. This includes setting the reserve contribution amount.
- **Step 3 Communicate:** After the board has determined the best course of action, the plan needs to be communicated to the association members. This can be accomplished through the distribution of the results of this reserve study and/or through association meetings. This allows them to ask questions and understand the direction the association will be heading.
- Step 4 Update and Adjust: Reserve studies are a one-year document, and need to be updated and adjusted annually. We recommend additional collaboration with specialized professionals to provide the expertise and adjustments to this reserve study. Additionally, we recommend the board review and make minor adjustments of this plan before and after reserve projects throughout the year.

5. Supplemental Report Information

5.1 Definitions

COMPONENT: The individual line items in the Reserve Study developed or updated in the Physical Analysis. These elements form the building blocks for the Reserve Study. Components are defined as being:

- 1. Association responsibility
- 2. Having a limited Useful Life expectancy
- 3. Predictable Remaining Useful Life expectancies
- 4. Above a minimum threshold cost
- 5. As required by law

DEFICIT/SURPLUS: The Reserve Balance less the Fully Funded Balance.

FULLY FUNDED BALANCE (FFB): Equivalent to Total Accrued Depreciation. This represents the deteriorated or used portion of the component. This is calculated for each component, then summed together for a total FFB. FFB = Current Cost X Effective Age / Useful Life

PERCENT FUNDED: The ratio at a particular point of time of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.

PROJECTED RESERVE BALANCE: The anticipated reserve balance on the first day of the fiscal year for which this report has been prepared. This is based upon information provided and not audited.

REMAINING USEFUL LIFE (RUL): The estimated time, in years, that a reserve component can be expected to continue to serve its intended function.

REPLACEMENT COST: The cost of replacing, repairing, or restoring a Reserve Component to its original functional condition. The Current Replacement Cost would be the cost to replace, repair, or restore the component during that particular year.

USEFUL LIFE (UL): The estimated time, in years, that a reserve component can be expected to serve its intended function if properly constructed in its present application or installation.



5.2 Table 4 - RCW Required Information & Location

RCW Required Information	Report Location
(a) A reserve component list, including any reserve component that would cost more than one percent of the annual budget of the association, not including the reserve account, for major maintenance, repair, or replacement. If one of these reserve components is not included in the reserve study, the study should provide commentary explaining the basis for its exclusion. The study must also include quantities and estimates for the useful life of each reserve component, remaining useful life of each reserve component, and current major maintenance, repair, or replacement cost for each reserve component;	Table 1 Table 4
(b) The date of the study and a statement that the study meets the requirements of this section;	Disclosure Page
(c) The level of reserve study performed:	Cover Page
(d) The association's reserve account balance;	Executive Summary
(e) The percentage of the fully funded balance that the reserve account is funded;	Executive Summary Financial Summary
(f) Special assessments already implemented or planned;	Executive Summary Financial Summary
(g) Interest and inflation assumptions;	Executive Summary Financial Summary
(h) Current reserve account contribution rate;	Executive Summary Financial Summary
(i) Recommended reserve account contribution rate; a contribution rate for a full funding plan to achieve one hundred percent fully funded reserves by the end of the thirty-year study period, a baseline funding plan to maintain the reserve balance above zero throughout the thirty-year study period without special assessments, and a contribution rate recommended by the reserve study professional;	Executive Summary Financial Summary
(j) Projected reserve account balance for thirty years and a funding plan to pay for projected costs from those reserves without reliance on future unplanned special assessments;	Spread Sheet of Reserve Expenses
(k) Whether the reserve study was prepared with the assistance of a reserve study professional.	Executive Summary
(3) A reserve study shall include the following disclosure: "This reserve study should be reviewed carefully. It may not include all common and limited common element components that will require major maintenance, repair, or replacement in future years, and may not include regular contributions to a reserve account for the cost of such maintenance, repair, or replacement. The failure to include a component in a reserve study, or to provide contributions to a reserve account for a component, may, under some circumstances, require you to pay on demand as a special assessment your share of common expenses for the cost of major maintenance, repair, or replacement of a reserve component."	Disclosure Page



5.3 Reserve Study Disclosure

This document is the sole opinion of CEDCORE, LLC and has been provided pursuant to an agreement containing restrictions on its use. No part of this document may be copied or distributed, in any form or by any means, nor disclosed to third parties without the expressed written permission of CEDCORE. The client shall have the right to reproduce and distribute copies of this report, or the information contained within, as may be required for compliance with all applicable regulations.

This reserve study and the parameters under which it has been completed are based upon information provided to us in part by representatives of the association, its contractors, assorted vendors, specialists and independent contractors. The site visit is a limited scope visual observation of the surface condition of identified and exposed components. Hidden systems including but not limited to mechanical, electrical, structural, plumbing, storm water, sewer, water supply, foundations, etc. are beyond the scope of a reserve study. No destructive testing was undertaken, nor does this study purport to address any latent and/or patent defects or life expectancies which are abnormally short due to either improper design and/or installation or due to subsequent improper maintenance. It is assumed that all components are to be reasonably maintained for the remainder of their life expectancy.

Various construction pricing and scheduling manuals may be used as well as costs and life expectancies obtained from numerous vendors, vendor catalogues, actual quotations or historical costs, and our own experience in the field of Reserve Study preparation.

It has been assumed, unless otherwise noted in this report, that all assets have been designed and constructed properly and that each estimated Useful Life will approximate that of the norm per industry standards and/or manufacturer's specifications. In some cases, estimates may have been used on assets, which have an indeterminable but potential liability to the association. The decision for the inclusion of these as well as all assets considered is left to the client.

We recommend that your Reserve Study be updated on an annual basis due to fluctuating interest rates, inflationary changes, and the unpredictable nature of the useful life and cost of many of the assets under consideration.

This Reserve Study is provided as an aid for planning purposes and not as an accounting tool. Since it deals with events yet to take place, there is no assurance that the results enumerated within it will, in fact, occur as described. Additionally, other unanticipated expenses may arise that are not included within this reserve study. This reserve study should be reviewed carefully. It may not include all common and limited common element components that will require major maintenance, repair, or replacement in future years, and may not include regular contributions to a reserve account for the cost of such maintenance, repair, or replacement. The failure to include a component in a reserve study, or to provide contributions to a reserve account for a component, may, under some circumstances, require you to pay on demand as a special assessment your share of common expenses for the cost of major maintenance, repair, or replacement of a reserve component. This Reserve Study was prepared by or under the direct supervision of a Reserve Specialist following National Reserve Study Standards and complies with RCW 64.34.382 and 64.38.070. This Reserve Study needs to be updated annually as well as when any new material information is obtained.



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