

PROFESSIONAL RESERVE STUDY



Raft Island Homeowners Association

Raft Island, Gig Harbor, WA 98335

For:

Raft Island Homeowners Association c/o Janet Biggs, Property Manager P.O. Box 364 Gig Harbor, WA 98335 (253) 985-3812 Prepared By:

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1.0 EXECUTIVE SUMMARY

1.1 DISCLOSURES REQUIRED BY STATE OF WA RCW 64.90.550

The undersigned makes the following disclosures required by RCW 64.90.550 to establish that this Reserve Study meets all requirements of the Washington Uniform Common Interest Ownership Act, Chapter 64.90 RCW:

- a. This Reserve Study was prepared with the assistance of a reserve study professional and that professional was independent;
- b. This Reserve Study includes all information required by RCW 64.90.550 Reserve Study Contents; and
- c. 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 the association to (1) defer major maintenance, repair, or replacement, (2) increase future reserve contributions, (3) borrow funds to pay for major maintenance, repair, or replacement, or (4) impose special assessments for the cost of major maintenance, repair, or replacement.

1.2 GENERAL DESCRIPTION OF PROPERTY

Raft Island is located in Henderson Bay of South Puget Sound in the suburban area west of Gig Harbor. The island is 201.86 acres and contains 226 single family lots, including a church camp in this Association (6 lots). We understand that the property was constructed in the 1950s. The property consists of approximately 3.5 miles of new private asphalt roads, a bridge to access the island, a tennis court, and two community beaches and a community dock.

There are no buildings that are the responsibility of the Homeowners Association.

Like all properties, this property will require capital maintenance. We have itemized areas of capital maintenance that we anticipate over the next thirty (30) years along with estimated costs and estimated schedule of repair/replacement.

1.3 IMMEDIATE NECESSARY CAPITAL EXPENDITURES

Table 1.3 below shows the items that are in need of action immediately or within the near future. This is a summary; all tasks are explained in greater detail in Section 3.0 Physical Analysis.

Table 1.3: Summary of Immediate Necessary Capital Expenditures

Component	Cost	Urgency	Section
Resurface dock decking with synthetic decking	\$10,000	2019	3.2
Playground equipment replacement	\$25,000	2019	3.2

1.4 CURRENT STATUS OF CAPITAL RESERVE FUND

Table 1.4 below shows the current status of the Capital Reserve Fund and how it relates to Full Funding. The current Reserve Fund data was provided to us by Anne Scea.

Table 1.4: Current Status of the Reserve Fund

Current Reserve Balance	\$268,330 as of November 20, 2018
Current Annual Reserve Contribution	\$29,592
Average Monthly Contribution per Unit	\$10.91
Balance Required for Full Funding	\$174,976
Current Percentage of Full Funding	153.4%

1.5 RECOMMENDATIONS AND ASSUMPTIONS FOR FUTURE RESERVE CONTRIBUTIONS

The following table is a summary of our assumptions and several options that we have provided for funding contributions to the Reserve Fund. This is only a summary table; for a detailed view of our recommended funding plans, please see section 4 of this report.

Table 1.5: Recommendations and Assumptions for Future Reserve Contributions

Assumed Average Future Inflation Rate over 30 Years	3%
Assumed Average Future Interest Rate over 30 Years	3%
Option 1 – Immediate Full Funding	
Immediate Disbursement from Reserve Fund to Owners	\$93,354
Average Initial Disbursement per Unit	\$413
Annual Reserve Fund Contribution Required for the Reserve Fund to remain Fully Funded	\$50,649
Average Contribution per Unit per Month	\$18.68
Option 2 – Baseline Funding*	
Annual Reserve Fund Contribution Required for Baseline Funding (Keeping the Reserve Fund above Zero over the 30 Year Period)	\$47,100
Average Contribution per Unit per Month	\$17.37

^{*}These funding levels are required by WA State RCW 64.90.550. They are "bare minimum" funding plans and therefore carry a higher level of risk. Because of this, they are not recommended by Jeff Samdal & Associates.

2.0 RESERVE STUDY BACKGROUND

2.1 Purpose of This Level 2 Reserve Study

The primary purpose of this Level 2 Reserve Study is to provide the Association with a planning and budgeting tool to adequately maintain the property 30 years into the future without unexpected special assessments. This study is intended to provide the Association with an understanding of their property and to bring to light necessary immediate expenditures and reasonably anticipated future capital expenses that should be addressed.

Associations have a responsibility to their members to adequately maintain their properties and our Reserve Studies provide our clients with the tools to implement capital maintenance. When small issues and maintenance items are addressed prior to becoming larger problems, there is typically a significant overall savings for a property owner. Properly maintained properties maintain higher property values than those with an abundance of deferred maintenance.

An additional benefit of this Reserve Study is that it is one of the qualifications required for Associations to obtain FHA approval (which is very helpful in selling or refinancing individual units). Many other sources of funding are also beginning to require them as well.

2.2 WASHINGTON STATE RCW 64.90.550

As of July 1, 2018, WA State RCW 64.90.550 defined a Reserve Study in WA State as the following:

- (1) Any reserve study is supplemental to the association's operating and maintenance budget.
- (2) A reserve study must include:
 - (a) A reserve component list, including any reserve component, the replacement cost of which exceeds one percent of the annual budget of the association, excluding contributions to the reserves for that reserve component. If one of these reserve components is not included in the reserve study, the study must explain the basis for its exclusion. The study must also include quantities and estimates for the useful life of each reserve component, the remaining useful life of each reserve component, and current major replacement costs for each reserve component;
 - (b) The date of the study and a disclosure as to whether the study meets the requirements of this section;
 - (c) The following level of reserve study performed:
 - (i) Level I: Full reserve study funding analysis and plan;
 - (ii) Level II: Update with visual site inspection; or
 - (iii) Level III: Update with no visual site inspection;
 - (d) The association's reserve account balance;
 - (e) The percentage of the fully funded balance to which the reserve account is funded;
 - (f) Special assessments already implemented or planned;
 - (g) Interest and inflation assumptions;
 - (h) Current reserve account contribution rates for a full funding plan and a baseline funding plan;
 - (i) A recommended reserve account 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 recommended reserve account contribution rate for a baseline funding plan to maintain the reserve account balance above zero throughout the thirty-year study period without special assessments, and a reserve account contribution rate recommended by the reserve study professional;

This reserve study meets the qualifications of WA State RCW 64.90.550

- (j) A projected reserve account balance for thirty years based on each funding plan presented in the reserve study;
- (k) A disclosure on whether the reserve study was prepared with the assistance of a reserve study professional, and whether the reserve study professional was independent; and
- (I) A statement of the amount of any current deficit or surplus in reserve funding expressed on a dollars per unit basis. The amount is calculated by subtracting the association's reserve account balance as of the date of the study from the fully funded balance, and then multiplying the result by the fraction or percentage of the common expenses of the association allocable to each unit; except that if the fraction or percentage of the common expenses of the association allocable vary by unit, the association must calculate any current deficit or surplus in a manner that reflects the variation.
- (3) A reserve study must also 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 the association to (1) defer major maintenance, repair, or replacement, (2) increase future reserve contributions, (3) borrow funds to pay for major maintenance, repair, or replacement, or (4) impose special assessments for the cost of major maintenance, repair, or replacement."

2.3 SCOPE AND METHODOLOGY

This Level 2 Reserve Study has been prepared based on Community Associations Institute (CAI) standards and our proposal to the Association dated February 7, 2018, which was based on our correspondence with Janet Biggs and the previous Reserve Studies that we have prepared for this development.

Information Gathering

Our initial task was to gather information regarding the property such as financials, drawings, maintenance records, and historical background. This Reserve Study is a reflection of the information provided to us.

Physical Analysis

Following the initial correspondence regarding the property, we performed an inspection of the property on January 14, 2019 so that we may provide an opinion of the current condition of the common building components. This is also the basis for our opinion of the anticipated capital needs that the Association will be responsible for over the next 30 years. This was a visual inspection and no invasive or destructive testing was performed. This visual inspection focused on the typical features of a building and surrounding property such as structure, drainage, roof, exterior, electrical, plumbing, HVAC systems, and interior finishes. This inspection was limited to accessible and visible areas.

The physical analysis included the following tasks:

1. Identification of Anticipated Capital Expenses: We consider anticipated capital expenses to be major expenses that can be reasonably predicted. Anticipated capital expenses are not considered routine maintenance such as routine landscaping or touch-up paint; routine maintenance should be taken care of through an operating budget. Nor do we consider anticipated capital needs to be expenditures that result from an accident or an unpredictable event, such as flood damage or earthquake damage; these items should be paid for by insurance.

The general criteria that we used to define an anticipated capital expense that warranted inclusion on our Itemized capital expenses is the following:

- The component must be a common component that is the responsibility of the Association.
- Repair or replacement of the component is significant and not budgeted for in the operating budget.

- The component repair or replacement occurs within the period of this study.
- **2. Estimated Replacement Schedule:** Our opinions of the various life expectancy estimates that we prepared are based on a combination of the following:
 - National Association of Home Builders (NAHB) averages
 - Building Owners and Managers (BOMA) averages
 - Product vendors and suppliers
 - Our company database
- **3. Estimated Replacement Cost:** Our opinions of the various costs for repair or replacement are based on a combination of the following:
 - R.S. Means
 - Product vendors and suppliers
 - Our company database
- **4. Financial Analysis:** We performed an analysis on the financial needs and current status at the property. The financial analysis provides the following:
 - Forecasts the anticipated Capital Reserves necessary at the property over the next 30 years.
 - Projects future Capital Reserve balances and determines the appropriate funding levels necessary.
 - Reviews the current funding plan and current financial position.
 - Provides our recommended annual contribution to the Reserve Fund to maintain Full Funding.

2.4 Sources of Information

The following people provided us information for this study:

- Anne Scea, Board Treasurer
- Janet Biggs, Property Manager, HOA Community Solutions

The following documents were viewed as part of this study

- Raft Island Balance Sheet Ledger, dated November 20, 2018
- List of Recent and Forthcoming Projects
- Cut Sheets for 5 Different Playground Sets

The physical inspection of the property occurred on the following date:

January 14, 2019

2.5 DEFINITIONS

Assumed Inflation - Our assumed inflation rate is our best guess of the long-term average of the inflation rate over the next thirty years; it is not based on the current Consumer Price Index (CPI). Our number is much closer to the historical average of the CPI over the previous 25 years.

Capital Reserves Balance - Actual or projected funds as of a particular point in time that the Association has identified for use to defray the future repair or replacement of those major components which the Association is obligated to maintain. Also known as reserves, reserve accounts, cash reserves.

Component - An individual line item in the Reserve Study developed or updated in the physical analysis. These elements form the building blocks of the Reserve Study. Components typically are: 1) Association responsibility, 2) with limited useful life expectancies, 3) predictable remaining useful life expectancies, 4) above a minimum threshold cost, and 5) as required by local codes.

Component Inventory - The task of selecting and quantifying reserve components. This task is accomplished through onsite visual observations, review of Association design and organizational documents, and a review of established Association precedents.

Deficit - An actual (or projected) reserve balance less than the fully funded balance. The opposite would be a surplus.

Effective Age - The difference between useful life and remaining useful life. Not always equivalent to chronological age, since some components age irregularly. Used primarily in computation.

Financial Analysis - The portion of a Reserve Study where current status of the reserves (measured as cash or percent funded) and a recommended reserve contribution rate (reserve funding plan) are derived. The financial analysis is one of the two parts of a Reserve Study.

Fully Funded - 100% funded. When the actual (or projected) reserve balance is equal to the fully funded balance.

Fully Funded Balance (FFB) - Total accrued depreciation. An indicator against which actual (or projected) reserve balance can be compared. In essence, it is the reserve balance that is proportional to the current Repair/replacement cost and the fraction of life "used up". This number is calculated for each component, them summed together for an Association total.

Percent Funded - The ratio, at a particular point of time (typically the beginning of the fiscal year), of the actual (or projected) reserve balance to the fully funded balance, expressed as a percentage.

Special Assessment - An assessment levied on the members of an Association in addition to regular assessments. Special assessments are often regulated by governing documents or local statutes.

2.6 Frequently Asked Questions About Reserve Studies

What is a reserve study?

Reserve studies are comprehensive reports that are used as budget planning tools that will assess the current financial health of the reserve fund as well as create a plan for future funding to offset anticipated major future common area expenditures.

According to Community Association Institute's <u>Best Practices, Reserve Studies/Management</u>: "There are two components of a reserve study—a physical analysis and a financial analysis. During the physical analysis, a reserve provider evaluates information regarding the physical status and repair/replacement cost of the association's major common area components. To do so, the provider conducts a component inventory, a condition assessment, and life and valuation estimates. A financial analysis assesses only the association's reserve balance or fund status (measured in cash or as percent funded) to determine a recommendation for an appropriate reserve contribution rate (funding plan)."

What are the different types of reserve studies?

Reserve studies fit into one of three categories: Full; Update with Site Visit; and Update with No Site Visit. They are frequently called Level 1, Level 2, and Level 3 respectively (as defined by Washington State RCW 64.90.550).

Level 1: A full reserve study – the reserve provider conducts a component inventory, a condition assessment (based upon on-site visual observations), and life and valuation estimates to determine both a fund status and a funding plan. They typically extend 30-years. A full reserve study must be in place before a Level 2 or Level 3 can take place.

Level 2: An update with site visit (on-site review) -- the reserve study provider conducts a component inventory (verification only, not quantification), a condition assessment (based on on-site visual observations), and life and valuation estimates to determine both a fund status and a funding plan. A Level 2 update is performed every third year, with the first one scheduled 3 years after the Level 1 was completed.

Level 3: An update with no site visit (off-site review) -- the reserve study provider conducts life and valuation estimates to determine a fund status and a funding plan. A Level 3 update is performed annually, except in years when a Level 1 or Level 2 has been conducted.

When should associations obtain reserve studies?

Most association experts would agree that an initial full 30-year reserve study should be conducted sooner rather than later if one is not already in place. They are typically updated annually after that to account for things such as inflation and any adjustments in funding levels, budgets, repairs or replacements.

If you follow Washington State RCW 64.90.555 (which we recommend), your reserve study schedule would look like this:

- Year 1: Level 1 full 30-year study
- Years 2, 3: Level 3 annual updates
- Year 4: Level 2 update with site visit
- Years 5, 6: Level 3 annual updates
- Year 7: Level 2 update with site visit

The cycle of Level 2 and Level 3 updates continues indefinitely. A Level 1 full study is not necessary after year 1.

What are the benefits of a Reserve Study?

Benefits of reserve studies, in short, include improved property maintenance (and therefore value) as well as complying with the law. In more detail:

Complying with Washington State law

View the rules regarding Reserve Studies and Reserve Accounts here:

http://app.leg.wa.gov/RCW/default.aspx?cite=64.90 - Sections 535, 540, 545, 550, 555, and 560

Fulfilling lender requirements (such as FHA)

Many lenders are requiring up-to-date reserve studies that indicate adequate financial health before they lend. Having a reserve study in place that shows a healthy funding plan before a homeowner finds a buyer could save significant time in the closing process.

Help maintain the property's value and appearance

A reserve study helps maintain the property's value and the property owner's investment. By identifying and budgeting for future repairs or replacement (anticipated capital expenditures), the property's common elements continue to look attractive and well-kept, adding to the community's overall quality of life. Many features, when properly maintained, can also benefit from an extended lifespan resulting in overall cost savings to the owners. Well maintained properties almost always have higher resale values than those that have been neglected.

Establishing sound financial planning and budget direction

A comprehensive reserve study lays out a schedule of anticipated major repairs or replacements to common property elements and applies cost estimates to them. It typically spans a 30-year period, and will serve as a financial planning tool for the association to use when determining homeowners' dues and contributions to the reserve fund.

Reducing the need for special assessments

An association that has properly implemented their reserve study will strategically collect fees over time from homeowners (via monthly dues) rather than need large sums of cash unexpectedly (special assessments). Therefore, the need for special assessments should be minimalized because expenses have already been planned for and the funds exist when needed.

Fulfilling the board of directors' fiduciary responsibility

Board members of community associations have a fiduciary responsibility to their members. Directors are legally bound to use sound business judgment in guiding the association and cannot ignore major capital expenditures or eliminate them from the budget.

3.0 PHYSICAL ANALYSIS

3.1 COMPONENT ASSESSMENT AND VALUATION

The component assessment and valuation of the itemized capital expenses on this property was done by providing our opinion of Useful Life, Remaining Useful Life, and Repair or Replacement Costs for the Reserve components. Table 3.1A lists this component inventory, and is based on the information that we were provided and on onsite visual observations.

The remainder of "Section 3.0 Physical Analysis" details each of the items in Table 3.1A using narratives and photos. They are meant to be read together.

Table 3.1B is a summary of expenses, grouped according to their expense category. Chart 3.1B is a pie chart illustrating the same.

Table 3.1A Key:

Quantity - The total quantity of each component.

Units - SF = Square Feet SY = Square Yards LF = Lineal Feet

EA = Each LS = Lump Sum SQ = Roofing Square (10 ft X 10 ft)

Cost/Unit - The cost of a component. The unit cost is multiplied by the component's quantity to obtain the total estimated replacement cost for the component.

Remaining Life – An opinion of the probable remaining life, in years, that a reserve component can be expected to continue to serve its intended function. Replacements anticipated to occur in the initial or base year have "zero" Remaining Life.

Useful Life - Total Useful Life or Depreciable Life. An opinion of the total probable life, in years, that a reserve component can be expected to serve its intended function in its present condition.

Table 3.1A: Component Assessment and Valuation

Note: All numbers provided are the engineer's opinion of probable life and cost in 2019 dollars. Exact numbers may vary.

	Component	Quantity	Units	Cost/Unit	Remaining Life (Years)	Useful Life (Years)	Total Cost	Cost per Unit	Avg. Cost per Unit per Year	
3.2	SITE									
	Asphalt overlay	369,600	SF	\$2.27	29	30	\$838,992	\$3,712	\$123.75	
	Asphalt seal coating and restriping	369,600	SF	\$0.23	4	5	\$85,008	\$376	\$75.23	
	Resurface dock decking with synthetic decking	1,300	SF	\$7.69	1	50	\$10,000	\$44	\$0.88	
	Rebuild the dock and pilings	1	LS	\$90,000	19	50	\$90,000	\$398	\$7.96	
	Replace concrete bulkhead at north beach	220	LF	\$280	25	50	\$61,600	\$273	\$5.45	
	Playground equipment replacement	1	LS	\$25,000	0	25	\$25,000	\$111	\$4.42	
	Picnic assets replacement allotment	1	LS	\$2,500	5	5	\$2,500	\$11	\$2.21	
	Rebuild the north beach stairs	1	LS	\$6,800	23	25	\$6,800	\$30	\$1.20	
	Replace the bus stop shelter and entrance sign	1	LS	\$6,869	30	30	\$6,869	\$30	\$1.01	
	Resurface the tennis court	1	LS	\$11,200	7	25	\$11,200	\$50	\$1.98	
	No privacy fencing is the responsibility	of the Hom	eowners As	sociation						
	Landscaping paid for via the operating	budget								
3.3	STRUCTURE									
	No structural expenditures budgeted									
3.4	ROOFING									
	There are no common roofs on this pro	pperty								
3.5	EXTERIOR									
	There are no common exteriors in this	property								
3.6	ELECTRICAL SYSTEMS									
	There are no common electrical systems on this property									
3.7	PLUMBING SYSTEMS									
	Water distribution system owned and r	maintained v	ria a private	utility						
	Septic systems are all owned and main	ntained by ir	ndividual ow	ners						

	Component	Quantity	Units	Cost/Unit	Remaining Life (Years)	Useful Life (Years)	Total Cost	Cost per Unit	Avg. Cost per Unit per Year
3.8	HVAC SYSTEMS								
	No common HVAC systems								
3.9	ELEVATORS								
	No common elevators								
3.10	FIRE DETECTION & SUPPRESSION								
	No common fire detection and suppres	sion systen	ns						
3.11	COMMON INTERIOR FINISHES								
	No common interior areas								
3.12	MISCELLANEOUS								
	No miscellaneous expenses								
3.13	AMENITIES								
	No amenities not mentioned in other a	eas of this	table						
						Average (Cost Per Unit	Per Year	\$224

3.2 SITE

The address of this property is Raft Island, Gig Harbor, WA 98335.



Aerial image of property (courtesy of Google Earth)

General Description of Site

Raft Island is located in Henderson Bay of South Puget Sound in the suburban area west of Gig Harbor. The island is 201.86 acres and contains 226 single family lots, including a church camp in this Association (6 lots). We understand that the property was constructed in the 1950s. The property consists of approximately 3.5 miles of new private asphalt roads, a bridge to access the island, a tennis court, and two community beaches and a community dock.

There are no buildings that are the responsibility of the Homeowners Association.

Asphalt

There are approximately 3.5 miles of private roads on this island that were recently installed in 2017 at a cost of \$839,865. The Homeowners Association is responsible for the maintenance of the asphalt of the private roadways on this island.

These roads should not have to be completely replaced (as they were in 2017) within the 30-year duration of this study; however, we do anticipate that a 2-inch asphalt overlay will be necessary 30 years after these roads were installed, in 2047.

We understand the Board budgets for annual road repairs in their annual budget, as this is considered a general operating expense. Therefore, we have not budgeted for road repairs in this study.

We have budgeted for emulsion seal coating to occur in 2021 and every 5 years thereafter. Following emulsion seal coating, the asphalt and curbing should be painted with any appropriate fire lane markings that are recommended.



Asphalt Entrance prior to Bridge on Raft Island Road



South Asphalt Parking Area







Park Avenue NW





Madrona Drive NW

Rhododendron Drive NW





Fir Drive NW

Fir Drive NW





Maple Lane NW

Hemlock Drive NW

Dock

There is a community dock on in this development. We understand that new pilings were installed in 2002 and new floats were installed in 1988. We have assumed a total lifespan of 50 years for this dock starting in 1988. The decking, however, will be replaced in 2019 at a budgetary cost of \$10,000. We recommend that the current decking will be replaced with synthetic decking as it is a much more durable material.





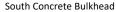
Community Dock

Community Dock

Concrete Bulkhead

There is a concrete bulkhead at both of the community beaches. The south bulkhead is very short and does not appear to take much punishment. Therefore, we have not budgeted for replacement of the south bulkhead. We actually believe that both of these concrete bulkheads should have a lifespan well beyond the duration of this study. However, we understand that the north bulkhead had a design life of 50 years when it was installed in 1993. We believe that this is a bit conservative; however, we have budgeted for replacement of this bulkhead on this schedule. The original cost to install this bulkhead was \$25,000. Typically, these types of 8-foot bulkheads are installed at a cost of \$280 per linear foot. Therefore, we have budgeted for a replacement cost in today's dollar values at \$61,600.







North Concrete Bulkhead

Bridge

The bridge leading to Raft Island was recently constructed in 2014/2015. The Association deposits funds for future bridge repairs in a separate "Bridge Reserve Fund" that is not factored into this study.



New Bridge

Playground Equipment

There is playground equipment at the south beach. We understand that the Board plans on replacing this playground equipment with a new larger playground assembly in 2019. We were provided 5 different options for play equipment that the Board is considering that vary widely in cost. Therefore, at this point, we have simply budgeted for \$25,000 for this equipment.

Generally, playground equipment should have a total lifespan of 25 years if maintained. The level of funding that can be spent on new playground equipment can vary widely.



Playground Equipment at South Beach



Landscaping Surrounding South Playground Area

Picnic Assets

There are barbecues, picnic tables, a fire pit, and benches at the two community beaches and the community tennis court. The cost to replace these items is very small in comparison to the large collective expenses on this property in the future. However, we have included a small line item in the Reserve Study as a lump sum picnic assets replacement allotment every 5 years.





Fire Pit at South Beach

Barbecues and Picnic Tables at South Beach



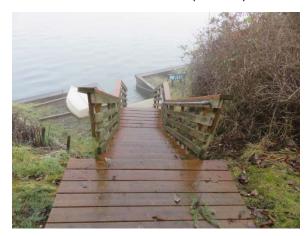
Picnic Tables at North Beach



Picnic Table and Bench at Tennis Court Area

North Beach Stairs

There are wood stairs at the north community beach. These stairs were rebuilt in 2016 at a cost of \$6,785. We have assumed that these stairs will have a total lifespan of 25 years.





Stairs to North Beach

Stairs to North Beach

Wood Fence

There are wood fences on both sides of the road that accesses the bridge leading to the island. However, we understand that these fences are not the property of the Homeowners Association. We understand that there are no solid fences that are the responsibility of the HOA.



Wood Fence along Entrance

Split Rail Fence

There is a split rail fence that is in the vicinity of the tennis court. This fence is the responsibility of the HOA; however, this fence is very simple and can easily be replaced by members of the community as needed. Therefore we have not budgeted for replacement of this fence in the Reserve Study.



Split Rail Fence adjacent Tennis Court

Entrance Sign

There is a bus-stop shelter and community entrance sign at entrance to Raft Island Road off of Kopachuck Drive NW that was installed in 2018 at a cost of \$6,869. We assume that this structure will have a total lifespan of 30 years.



Existing Front Sign and Bus Shelter

Tennis Court

There is a community tennis court on this property. We understand that this tennis court was last resurfaced in the year 2000 for a cost of \$6,527. We have budgeted for this same level of surfacing every 25 years.

The chain link fence surrounding this tennis court is currently in good condition and should have a service life well beyond the duration of this study. Therefore, no funding has been allocated to replacement of this chain link fence.



Tennis Court

3.3 STRUCTURE

There are no common structures on this property.

3.4 ROOFING

There are no common roofs on this property.

3.5 EXTERIOR

There are no common exteriors in this property.

3.6 ELECTRICAL SYSTEMS

There are no common electrical systems on this property.

3.7 PLUMBING SYSTEMS

Utility Operated Water Distribution System

A private utility owns and maintains the water distribution system on this island. We understand that the community water distribution system is currently being replaced though out this community. However, this is being done via the private utility at their cost and does not affect the Reserve Fund.



Private Water Distribution System

Private Septic Systems

Each lot has their own private septic system that is not the responsibility of the homeowners association.

3.8 HVAC SYSTEMS

There are no common HVAC Systems on this property.

3.9 ELEVATORS

There are no common elevators on this property.

3.10 Fire Detection and Suppression

There are no common fire detection and suppression systems on this property.

3.11 COMMON INTERIOR FINISHES

There are no common interior finishes on this property that will need to be maintained via the Reserve Fund.

3.12 MISCELLANEOUS MECHANICAL

There are no miscellaneous mechanical items not addressed in other areas of this report.

3.13 AMENITIES

There are no amenities on this property that are not accounted for in other sections of this report.

3.20 SUMMARY OF ANNUAL ANTICIPATED EXPENSES

Using the conclusions described throughout "Section 3.0 Physical Analysis", the following Table 3.20 lists the annual anticipated capital expenses for each reserve item in the year that we believe is most probable. All of these anticipated expenses already have inflation factored into them at the assumed level that is listed in "Section 4.3 Assumptions for Future Interest Rate and Inflation".

	Action Required	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
3.2	SITE													
	Asphalt overlay													
	Asphalt seal coating and restriping					\$95,677					\$110,916			
	Resurface dock decking with synthetic decking		\$10,300											
	Rebuild the dock and pilings													
	Replace concrete bulkhead at north beach													
	Playground equipment replacement	\$25,000												
	Picnic assets replacement allotment						\$2,898					\$3,360		
	Rebuild the north beach stairs													
	Replace the bus stop shelter and entrance sign													
	Resurface the tennis court								\$13,775					
3.3	STRUCTURE													
	No structural expenditures budgeted													
3.4	ROOFING													
	There are no common roofs on this property													
3.5	EXTERIOR													
	There are no common exteriors in this property													
3.6	ELECTRICAL SYSTEMS													
	There are no common electrical systems on this property													
3.7	PLUMBING SYSTEMS													
	Water distribution system owned and maintained via a private utility													
3.8	HVAC SYSTEMS													
	No common HVAC systems													
3.9	ELEVATORS													
	No common elevators													
3.10	FIRE DETECTION & SUPPRESSION													
	No common fire detection and suppression systems													

	Action Required	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
3.11	COMMON INTERIOR FINISHES													
	No common interior areas													
3.12	MISCELLANEOUS													
	No miscellaneous expenses													
3.13	AMENITIES													
	No amenities not mentioned in other areas of this table													
	ANNUAL EXPENSES BY YEAR	\$25,000	\$10,300	\$0	\$0	\$95,677	\$2,898	\$0	\$13,775	\$0	\$110,916	\$3,360	\$0	\$0

	Action Required	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
3.2	SITE													
	Asphalt overlay													
	Asphalt seal coating and restriping		\$128,582					\$149,062					\$172,804	
	Resurface dock decking with synthetic decking													
	Rebuild the dock and pilings							\$157,816						
	Replace concrete bulkhead at north beach													\$128,977
	Playground equipment replacement													\$52,344
	Picnic assets replacement allotment			\$3,895					\$4,515					\$5,234
	Rebuild the north beach stairs											\$13,420		
	Replace the bus stop shelter and entrance sign													
	Resurface the tennis court													
3.3	STRUCTURE													
	No structural expenditures budgeted													
3.4	ROOFING													
	There are no common roofs on this property													
3.5	EXTERIOR													
	There are no common exteriors in this property													
3.6	ELECTRICAL SYSTEMS													
	There are no common electrical systems on this property													
3.7	PLUMBING SYSTEMS													
	Water distribution system owned and maintained via a private utility													
3.8	HVAC SYSTEMS													
	No common HVAC systems													
3.9	ELEVATORS													
	No common elevators													
3.10	FIRE DETECTION & SUPPRESSION													
	No common fire detection and suppression systems													

	222 0:2017 (11107)(2 07)(1 117)(2 22)(1 211020													
	Action Required	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
3.11	COMMON INTERIOR FINISHES													
	No common interior areas													
3.12	MISCELLANEOUS													
	No miscellaneous expenses													
3.13	AMENITIES													
	No amenities not mentioned in other areas of this table													
	ANNUAL EXPENSES BY YEAR	\$0	\$128,582	\$3,895	\$0	\$0	\$0	\$306,878	\$4,515	\$0	\$0	\$13,420	\$172,804	\$186,556

	Action Required	2044	2045	2046	2047	2048
3.2	SITE				1	
	Asphalt overlay				\$1,977,140	
	Asphalt seal coating and restriping				\$200,327	
	Resurface dock decking with synthetic decking					
	Rebuild the dock and pilings					
	Replace concrete bulkhead at north beach					
	Playground equipment replacement					
	Picnic assets replacement allotment					\$6,068
	Rebuild the north beach stairs					
	Replace the bus stop shelter and entrance sign					\$16,673
	Resurface the tennis court					
3.3	STRUCTURE					
	No structural expenditures budgeted					
3.4	ROOFING					
	There are no common roofs on this property					
3.5	EXTERIOR					
	There are no common exteriors in this property					
3.6	ELECTRICAL SYSTEMS					
	There are no common electrical systems on this property					
3.7	PLUMBING SYSTEMS					
	Water distribution system owned and maintained via a private utility					
3.8	HVAC SYSTEMS					
	No common HVAC systems					
3.9	ELEVATORS					
	No common elevators					
3.10	FIRE DETECTION & SUPPRESSION					
	No common fire detection and suppression systems					

	Action Required	2044	2045	2046	2047	2048
3.11	COMMON INTERIOR FINISHES					
	No common interior areas					
3.12	MISCELLANEOUS					
	No miscellaneous expenses					
3.13	AMENITIES					
	No amenities not mentioned in other areas of this table					
	ANNUAL EXPENSES BY YEAR	\$0	\$0	\$0	\$2,177,467	\$22,741

4.0 FINANCIAL ANALYSIS

The financial analysis in this Reserve Study is a proprietary system that was developed by Jeff Samdal & Associates. We have provided the funding method that we believe will most adequately fund the reserves of this Association.

4.1 CURRENT FINANCIAL INFORMATION AND CURRENT FUNDING PLAN

The Association's Reserve Fund balance was \$268,330 as of November 20, 2018 (Balance provided by Anne Scea). According to our calculations detailed in this report, the Reserve Fund balance required for "Full Funding" of this property at this time is \$174,976. Therefore, the property is 153.4% funded.

The current annual contribution to the reserve fund is \$29,592, which averages \$10.91 per unit per month. For the purpose of comparison to our recommended funding plans, we have assumed that the Association will increase their current reserve fund contribution by 3% annually to account for inflation. This is shown in Table 4.5 "Reserve Fund Balance Sheet" (Section 4.5) and all subsequent figures.

This property is currently

153.4% funded.

This funding contribution is not adequate to maintain "Full Funding" of this property beyond 2022.

4.2 RECOMMENDED RESERVE FUNDING PLAN

Full Funding is the ideal position for any property and represents a strong financial position. We recommend that all properties be Fully Funded, as Full Funding allows Associations to maintain their properties adequately and minimizes their risk of unplanned special assessments.

Our funding recommendations are as follows:

Option One: Immediate Disbursement from Reserve Fund to Owners

The Reserve Fund is well beyond full funding. If the Board would like to bring the Reserve Fund down to the level of full funding than they should make a disbursement of \$93,354 from the Reserve Fund to the owners. This translates to an average disbursement of \$413 per unit.

Following this initial disbursement, the funding plan necessary to maintain a Fully Funded Capital Reserve Fund for the duration of this study will be a total property contribution of \$50,649 per year in the initial year, which translates to \$18.68 per unit per month. This annual contribution will need to be increased 3% each subsequent year to maintain Full Funding and to account for inflation.

For a detailed look at the annual funding contribution necessary per year, see Table 4.5 "Reserve Fund Balance Sheet" (Section 4.5).

-OR-

Option One

Average Immediate
Disbursement Per Unit:

\$413

Avg. Contribution
Thereafter Per Unit Per
Month:

2019 \$18.68

(with 3% annual increase thereafter)

4.3 OTHER REQUIRED FUNDING PLAN OPTIONS

Per Washington State RCW 64.90.550, our Reserve Study is required to provide the following funding plans:

- 30-Year Make up Funding Plan necessary for the Association Reserve Fund to reach a Full Funding Level in 30 years.
- Baseline Funding Minimum level of funding required in order to maintain the Reserve Fund above zero while paying for all components listed in Table 3.1 Component Assessment and Valuation Table.

Special Note: Because these are "bare minimum" funding options that increase an Association's risk for special assessments (and financial instability), we do not recommend either of these funding options. We recommend that the Association obtain a level of Full Funding as soon as possible to ensure that the Association has the resources necessary to adequately maintain its collective property and minimize the burden of special assessments.

These required options are as follows:

Option Four: Full Funding in 30 Years

As the Reserve Fund is already above the level of full funding, this option is not applicable.

-OR-

Option Five: Baseline Funding – Keeping Reserve Balance above Zero

The funding plan necessary to maintain the Reserve Fund above zero for the duration of this study will be an annual contribution of \$47,100 per year in the initial year, which translates to \$17.37 per unit per month. This annual contribution will need to be increased 3% each subsequent year to maintain the Reserve Fund above zero and to account for inflation.

For a detailed look at the annual funding contribution necessary per year, see Table 4.5 "Reserve Fund Balance Sheet" (Section 4.5).

Option Five

Average Contributions
Per Unit Per Month:

\$17.37

(with 3% annual increase thereafter)

4.4 ASSUMPTIONS FOR FUTURE INTEREST RATE AND INFLATION

For the purposes of this report, we have assumed that the inflation rate over the next 30 years will average **3%**. This is based on historical averages over the last 25 years and our conservative best guess for the future. This percentage can vary greatly just as global economic conditions can vary, which is one reason why this Reserve Study should be updated annually per Washington State RCW 64.90.550, which we provide complimentary over the next two years with this Reserve Study (see Appendix).

For the purpose of this study, we will assume that the Association manages their money in the Reserve Fund so that the average interest rate return on its money will be equal to that of inflation. This is a conservative estimate given that since 1965, the average yield between short term treasuries and inflation has been 1.04%, which means that these relatively conservative investments have been able to outpace inflation over the long term (according to Crestmont Research, www.crestmontresearch.com). Since we have assumed that the inflation rate over the duration of this study will average 3%, we have conservatively also assumed that the Reserve Fund average interest rate will equal 3%. Again, this does not reflect current averages but rather a best guess of the future assuming you have invested effectively.

A common strategy is to invest in multiple accounts. Funds that will be necessary in the shorter term must be kept in a relatively liquid account. Funds that are not allotted for near future planned expenditures can be deposited into longer term investments which frequently earn higher interest rates. Consult with a qualified financial advisor for the best solution for your Association.

4.5 ANNUAL FUND BALANCES; ANNUAL FUNDING TABLE AND FIGURES

The table and figures shown in this section are intended to give the Association a clearer view of the likely future financial position that the Association will be in, provided that the reserve funding plan is followed.

- Table 4.5: "Reserve Fund Balance Sheet". This table lists annual revenue, expenses, and year end reserve fund balances. All Section 4.5 Figures are based on this data.
- Figure 4.5A-1: "Comparison of Funding Plans -- Reserve Fund Balances Through 2048". This line graph depicts the funding balances of the proposed funding options vs. the current. Note the current plan, in dotted red, falls below zero in several places. This represents insufficient funding for repairs needed in these years.
- Figure 4.5A-2: "Comparison of Funding Plans -- Reserve Fund Balances Through 2028". This line graph focuses on the next ten years, comparing the proposed plans to get the Association to a Full Funding status.
- Figure 4.5B: "Comparison of Funding Plans -- Association Contributions to Reserve Fund by Year"
- Figure 4.5C: "Comparison of Funding Plans Percentage of Full Funding by Year"

TABLE 4.5: RESERVE FUND BALANCE SHEET

TABLE 4.5: RESERVE FUND BALANCE SHEET	T						1	,		1	,	
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CURRENT FUNDING PLAN												
Beginning Reserve Balance	268,330	251,428	278,552	317,846	359,246	305,732	345,768	390,961	424,573	474,251	413,947	462,145
Planned Special Assessments												
Regular Reserve Fund Contribution	3,324	29,592	30,480	31,394	32,336	33,306	34,305	35,334	36,394	37,486	38,611	39,769
Annual Total Property Contribution to The Reserve Fund	3,324	29,592	30,480	31,394	32,336	33,306	34,305	35,334	36,394	37,486	38,611	39,769
Average Monthly Contribution to the Reserve Fund per Unit	10.91	10.91	10.91	10.91	10.91	10.91	10.91	10.91	10.91	10.91	10.91	10.91
Annual Capital Expenses	25,000	10,300	-	-	95,677	2,898	-	13,775	-	110,916	3,360	-
Interest Income	7,725	7,832	8,814	10,006	9,827	9,628	10,888	12,052	13,283	13,126	12,947	14,461
Ending Reserve Balance	251,428	278,552	317,846	359,246	305,732	345,768	390,961	424,573	474,251	413,947	462,145	516,375
Percentage of Full Funding	143.7%	141.2%	123.4%	111.7%	104.7%	96.7%	91.0%	86.4%	83.0%	76.2%	73.9%	72.2%
2018 funding numbers are prorated from the date that the Reserve Balance was provided to us, and does not represent a full annual contribution IMMEDIATE FULL FUNDING												
Beginning Reserve Balance	268,330	243,703	197,214	257,670	321,576	291,972	357,386	429,492	491,622	571,494	543,136	625,108
Full Funding Annual Maintenace Funding	3,324	50,649	53,733	55,345	57,006	58,716	60,478	62,292	64,161	66,085	68,068	70,110
Planned Special Assessments / Make up Funds		(93,354)										
Annual Total Property Contribution to The Reserve Fund	3,324	(42,705)	53,733	55,345	57,006	58,716	60,478	62,292	64,161	66,085	68,068	70,110
Average Monthly Contribution to the Reserve Fund per Unit		18.68	19.81	20.41	21.02	21.65	22.30	22.97	23.66	24.37	25.10	25.85
Annual Capital Expenses	25,000	10,300	-	-	95,677	2,898	-	13,775	-	110,916	3,360	-
Interest Income		6,516	6,722	8,560	9,067	9,596	11,629	13,613	15,711	16,472	17,265	19,805
Full Funding - Ending Reserve Balance	243,703	197,214	257,670	321,576	291,972	357,386	429,492	491,622	571,494	543,136	625,108	715,023
Percentage of Full Funding	139.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Yellow Highlighted Cells Represent Make-Up Funds							•				•	
BASELINE FUNDING												
Beginning Reserve Balance	268,330	243,703	288,366	346,258	407,364	374,712	436,818	505,344	563,606	639,310	606,469	683,630
Full Funding Annual Maintenace Funding	3,324	47,100	48,513	49,968	51,467	53,011	54,602	56,240	57,927	59,665	61,455	63,298
Planned Special Assessments / Make up Funds												
Annual Total Property Contribution to The Reserve Fund	3,324	47,100	48,513	49,968	51,467	53,011	54,602	56,240	57,927	59,665	61,455	63,298
Average Monthly Contribution to the Reserve Fund per Unit		17.37	17.89	18.42	18.98	19.55	20.13	20.74	21.36	22.00	22.66	23.34
Annual Capital Expenses	25,000	10,300	-	-	95,677	2,898	-	13,775	-	110,916	3,360	-
Interest Income		7,863	9,379	11,137	11,558	11,993	13,924	15,797	17,777	18,411	19,066	21,458
Ending Reserve Balance	243,703	288,366	346,258	407,364	374,712	436,818	505,344	563,606	639,310	606,469	683,630	768,387
Percentage of Full Funding	139.3%	146.2%	134.4%	126.7%	128.3%	122.2%	117.7%	114.6%	111.9%	111.7%	109.4%	107.5%

2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
516 375	573 443	633.470	566 072	624 533	690.064	758 965	831 378	505 073	661 937	736 044	814.000
010,010	010,440	000,470	000,072	024,000	000,004	700,000	001,070	000,010	001,007	700,044	
40 962	42 191	43 457	44 761	46 103	47 486	48 911	50 378	51 890	53 446	55 050	56.701
	, ,	,	, -	-,	,			. ,	,		56,701
	· ·			·			·				10.91
-	-					-			-	-	13,420
16.106	17.836	-,	17.595	19.428	21.414	23.503	21.094	18.590	20.660	22.907	25.069
573.443	633.470		624,533	690.064	758.965	831.378	595.973	661.937		814.000	882,351
70.8%	69.6%	64.0%	63.3%	62.8%	62.4%	62.0%	51.4%	51.6%	51.9%	52.3%	52.1%
715.023	809.771	909.559	884.095	986.758	1.098.856	1.216.793	1.340.816	1.159.706	1,282,764	1.416.882	1.557.893
72,213	74,380	76,611	78,909	81,277	83,715	86,226	88,813	91,478	94,222	97,049	99,960
72,213	74,380	76,611	78,909	81,277	83,715	86,226	88,813	91,478	94,222	97,049	99,960
26.63	27.43	28.25	29.10	29.97	30.87	31.79	32.75	33.73	34.74	35.78	36.86
-	-	128,582	3,895	-	-	-	306,878	4,515	-	-	13,420
22,534	25,409	26,507	27,648	30,822	34,221	37,797	36,954	36,096	39,896	43,962	48,035
809,771	909,559	884,095	986,758	1,098,856	1,216,793	1,340,816	1,159,706	1,282,764	1,416,882	1,557,893	1,692,467
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
768,387	857,614	951,503	919,742	1,015,693	1,120,645	1,230,980	1,346,926	1,157,240	1,271,203	1,395,683	1,526,488
	715,023 72,213 26,63 809,771 100.0%	516,375 573,443 40,962 42,191 40,962 42,191 10.91 10.91 16,106 17,836 573,443 633,470 70.8% 69.6% 715,023 809,771 72,213 74,380 72,213 74,380 26.63 27.43 22,534 25,409 809,771 909,559 100.0% 100.0%	516,375 573,443 633,470 40,962 42,191 43,457 40,962 42,191 10.91 - 128,582 16,106 17,836 17,727 573,443 633,470 566,072 70.8% 69.6% 64.0% 715,023 809,771 909,559 72,213 74,380 76,611 72,213 74,380 76,611 26.63 27.43 28.25 - 128,582 22,534 25,409 26,507 809,771 909,559 884,095 100.0% 100.0%	516,375 573,443 633,470 566,072 40,962 42,191 43,457 44,761 40,962 42,191 43,457 44,761 10,91 10,91 10,91 10,91 - - 128,582 3,895 16,106 17,836 17,727 17,595 573,443 633,470 566,072 624,533 70.8% 69.6% 64.0% 63.3% 715,023 809,771 909,559 884,095 72,213 74,380 76,611 78,909 72,213 74,380 76,611 78,909 26.63 27,43 28,25 29,10 - - 128,582 3,895 22,534 25,409 26,507 27,648 809,771 909,559 884,095 986,758 100.0% 100.0% 100.0% 100.0%	516,375 573,443 633,470 566,072 624,533 40,962 42,191 43,457 44,761 46,103 40,962 42,191 43,457 44,761 46,103 10,91 10,91 10,91 10,91 10,91 - - 128,582 3,895 - 16,106 17,836 17,727 17,595 19,428 573,443 633,470 566,072 624,533 690,064 70.8% 69.6% 64.0% 63.3% 62.8% 715,023 809,771 909,559 884,095 986,758 72,213 74,380 76,611 78,909 81,277 72,213 74,380 76,611 78,909 81,277 26,63 27,43 28.25 29.10 29.97 - - 128,582 3,895 - 22,534 25,409 26,507 27,648 30,822 809,771 909,559 884,095 986,758 1,098,8	516,375 573,443 633,470 566,072 624,533 690,064 40,962 42,191 43,457 44,761 46,103 47,486 40,962 42,191 43,457 44,761 46,103 47,486 10,91 10,91 10,91 10,91 10,91 10,91 - - 128,582 3,895 - - 16,106 17,836 17,727 17,595 19,428 21,414 573,443 633,470 566,072 624,533 690,064 758,965 70.8% 69.6% 64.0% 63.3% 62.8% 62.4% 715,023 809,771 909,559 884,095 986,758 1,098,856 72,213 74,380 76,611 78,909 81,277 83,715 72,663 27,43 28.25 29.10 29.97 30.87 - - 128,582 3,895 - - - 128,582 3,895 - - <td< td=""><td>516,375 573,443 633,470 566,072 624,533 690,064 758,965 40,962 42,191 43,457 44,761 46,103 47,486 48,911 40,962 42,191 43,457 44,761 46,103 47,486 48,911 10,91 10,91 10,91 10,91 10,91 10,91 10,91 - - - 128,582 3,895 - - - 16,106 17,836 17,727 17,595 19,428 21,414 23,503 573,443 633,470 566,072 624,533 690,064 758,965 831,378 70.8% 69.6% 64.0% 63.3% 62.8% 62.4% 62.0% 715,023 809,771 909,559 884,095 986,758 1,098,856 1,216,793 72,213 74,380 76,611 78,909 81,277 83,715 86,226 72,213 74,380 76,611 78,909 81,277 83,715 86,2</td><td>516,375 573,443 633,470 566,072 624,533 690,064 758,965 831,378 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 10,91 10</td><td>516,375 573,443 633,470 566,072 624,533 690,064 758,965 831,378 595,973 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 51,890 10,91 10,</td><td>516,375 573,443 633,470 566,072 624,533 690,064 758,965 831,378 595,973 661,937 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 51,890 53,446 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 51,890 53,446 10.91</td><td>516,375 573,443 633,470 566,072 624,533 690,064 758,965 831,378 595,973 661,937 736,044 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 51,890 53,446 55,050 40,962 42,191 10,91</td></td<>	516,375 573,443 633,470 566,072 624,533 690,064 758,965 40,962 42,191 43,457 44,761 46,103 47,486 48,911 40,962 42,191 43,457 44,761 46,103 47,486 48,911 10,91 10,91 10,91 10,91 10,91 10,91 10,91 - - - 128,582 3,895 - - - 16,106 17,836 17,727 17,595 19,428 21,414 23,503 573,443 633,470 566,072 624,533 690,064 758,965 831,378 70.8% 69.6% 64.0% 63.3% 62.8% 62.4% 62.0% 715,023 809,771 909,559 884,095 986,758 1,098,856 1,216,793 72,213 74,380 76,611 78,909 81,277 83,715 86,226 72,213 74,380 76,611 78,909 81,277 83,715 86,2	516,375 573,443 633,470 566,072 624,533 690,064 758,965 831,378 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 10,91 10	516,375 573,443 633,470 566,072 624,533 690,064 758,965 831,378 595,973 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 51,890 10,91 10,	516,375 573,443 633,470 566,072 624,533 690,064 758,965 831,378 595,973 661,937 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 51,890 53,446 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 51,890 53,446 10.91	516,375 573,443 633,470 566,072 624,533 690,064 758,965 831,378 595,973 661,937 736,044 40,962 42,191 43,457 44,761 46,103 47,486 48,911 50,378 51,890 53,446 55,050 40,962 42,191 10,91

65,197

24.04

24,030

857,614

105.9%

67,153

24.76

26,736

951,503

104.6%

69,168

25.50

128,582

27,654

919,742

104.0%

71,243

26.27

3,895

28,602

1,015,693

102.9%

73,380

27.06

31,571

1,120,645

102.0%

75,582

27.87

34,753

1,230,980

101.2%

77,849

28.71

38,097

1,346,926

100.5%

80,185

29.57

306,878

37,007

1,157,240

99.8%

82,590

30.45

4,515

35,888

1,271,203

99.1%

85,068

31.37

39,412

1,395,683

98.5%

87,620

32.31

43,185

1,526,488

98.0%

90,248

33.28

13,420

46,947

1,650,263

97.5%

Planned Special Assessments / Make up Funds

Annual Total Property Contribution to The Reserve Fund

Annual Capital Expenses

Percentage of Full Funding

Interest Income

Ending Reserve Balance

Average Monthly Contribution to the Reserve Fund per Unit

TABLE 4.5: RESERVE FUND BALANCE SHEET

	2042	2043	2044	2045	2046	2047	2048
CURRENT FUNDING PLAN							
Beginning Reserve Balance	882,351	792,704	688,188	771,722	859,649	952,156	(1,160,688
Planned Special Assessments							
Regular Reserve Fund Contribution	58,402	60,154	61,959	63,818	65,732	67,704	69,735
Annual Total Property Contribution to The Reserve Fund	58,402	60,154	61,959	63,818	65,732	67,704	69,735
Average Monthly Contribution to the Reserve Fund per Unit	10.91	10.91	10.91	10.91	10.91	10.91	10.91
Annual Capital Expenses	172,804	186,556	-	-	-	2,177,467	22,741
Interest Income	24,754	21,885	21,575	24,109	26,775	(3,082)	(34,116
Ending Reserve Balance	792,704	688,188	771,722	859,649	952,156	(1,160,688)	(1,147,809
Percentage of Full Funding	47.4%	41.9%	42.9%	43.7%	44.4%	-957.6%	-506.7%
2018 funding numbers are prorated from the date that the Reserve Balance was provided to us, and does not represent a full annual contribution							
IMMEDIATE FULL FUNDING							
Beginning Reserve Balance	1,692,467	1,672,349	1,640,804	1,800,895	1,969,116	2,145,809	121,202
Full Funding Annual Maintenace Funding	102,959	106,048	109,229	112,506	115,881	119,358	122,938
Planned Special Assessments / Make up Funds							
Annual Total Property Contribution to The Reserve Fund	102,959	106,048	109,229	112,506	115,881	119,358	122,938
Average Monthly Contribution to the Reserve Fund per Unit	37.96	39.10	40.28	41.48	42.73	44.01	45.33
Annual Capital Expenses	172,804	186,556	-	-	-	2,177,467	22,741
Interest Income	49,726	48,963	50,863	55,714	60,812	33,503	5,139
Full Funding - Ending Reserve Balance	1,672,349	1,640,804	1,800,895	1,969,116	2,145,809	121,202	226,539
Percentage of Full Funding	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Yellow Highlighted Cells Represent Make-Up Funds							
BASELINE FUNDING							
Beginning Reserve Balance	1,650,263	1,618,725	1,575,114	1,722,464	1,877,237	2,039,746	187
Full Funding Annual Maintenace Funding	92,956	95,745	98,617	101,575	104,623	107,761	110,994
Planned Special Assessments / Make up Funds							
Annual Total Property Contribution to The Reserve Fund	92,956	95,745	98,617	101,575	104,623	107,761	110,994
Average Monthly Contribution to the Reserve Fund per Unit	34.28	35.30	36.36	37.45	38.58	39.74	40.93
Annual Capital Expenses	172,804	186,556	-	-	-	2,177,467	22,741
Interest Income	48,310	47,200	48,733	53,198	57,886	30,147	1,329
Ending Reserve Balance	1,618,725	1,575,114	1,722,464	1,877,237	2,039,746	187	89,770
Percentage of Full Funding	96.8%	96.0%	95.6%	95.3%	95.1%	0.2%	39.6%

Figure 4.5A-1 Comparison of Funding Plans – Reserve Fund Balances Through 2048

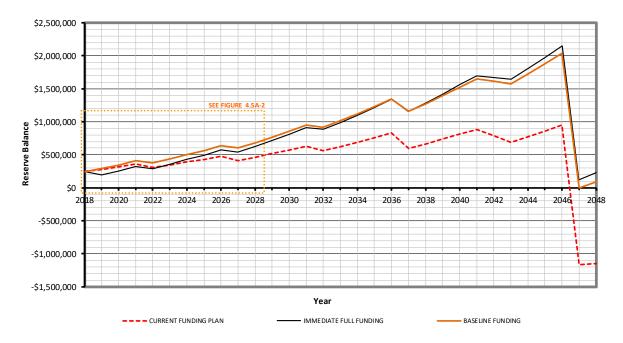
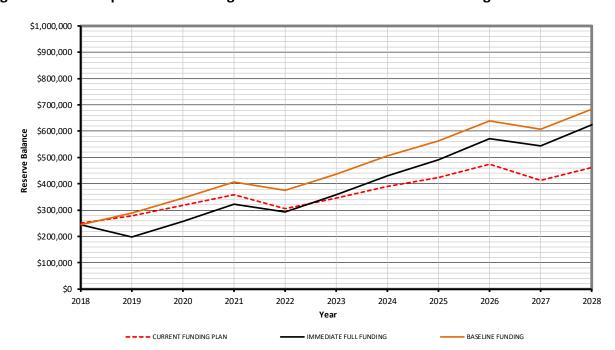


Figure 4.5A-2 Comparison of Funding Plans – Reserve Fund Balances Through 2028





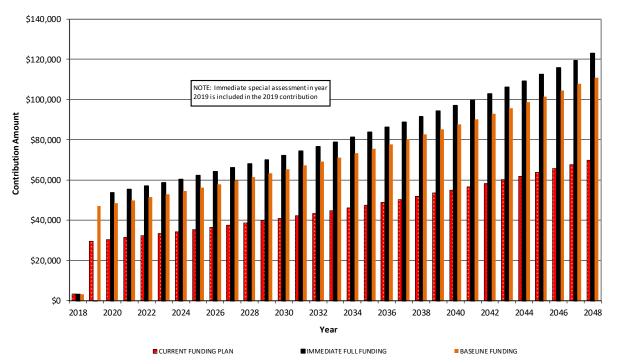
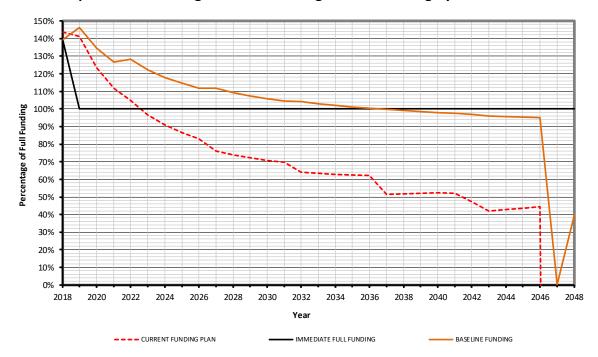


Figure 4.5C Comparison of Funding Plans – Percentage of Full Funding by Year



4.6 OTHER COMMON FUNDING METHODS

The following methods are methods that are sometimes implemented. We believe that many of these funding methods that keep the reserve fund at less than "Fully Funded" represent a weaker position for the Association. As the Fully Funded percentage decreases, the likelihood of unplanned special assessments increases.

Cash Flow Method

A method of calculating Reserve contributions where contributions to the Reserve fund are designed to offset the variable annual expenditures from the Reserve fund. Different Reserve Funding Plans are tested against the anticipated schedule of Reserve expenses until the desired Funding Goal is achieved.

Component Method

A method of calculating Reserve contributions where the total reserve contribution is based on the sum of contributions for individual components.

Baseline Funding

Establishing a Reserve funding goal of keeping the Reserve cash balance above zero.

Full Funding

Setting a Reserve funding goal of attaining and maintaining the Reserve Fund at or near 100% funded. *Recommended by Jeff Samdal & Associates*

Statutory Funding

Establishing a Reserve funding goal of setting aside the specific minimum amount of Reserves required by local statutes.

Threshold Funding

Establishing a Reserve funding goal of keeping the Reserve Balance above a specified dollar or Percent Funded amount. Depending on the threshold this may be more or less conservative than "Fully Funded."

5.0 LIMITATIONS

This report has been prepared for the exclusive use of Raft Island Homeowners Association and their property management company. We do not intend for any other party to rely on this report for any reason without our expressed written consent. If another individual or party relies on this study, they shall indemnify and hold Jeff Samdal & Associates harmless for any damages, losses, or expenses they may incur as a result of its use.

The Level 2 Reserve Study is a reflection of the information provided to us. This report has been prepared for Raft Island Homeowners Association's use, not for the purpose of performing an audit, quality/forensic analyses, or background checks of historical records. Our inspection report is not an exhaustive technical inspection of the property; we merely comment on the items that we believe that our clients would benefit from knowing. During a typical inspection, no invasive inspection is performed, no furnishings are moved, and no finishes are removed.

This report is a snap shot in time of the condition of the property at the time of inspection. The remaining life values that we list are based on our opinion of the remaining useful life and are by no means a guarantee. Our opinions are based on what we believe one could reasonably expect and are not based on worst case scenarios. These opinions are based upon our experience with other buildings of similar age and construction type. Opinions will vary and you may encounter contractors and/or consultants with differing opinions from ours. Ratings of various building components are most often determined by comparison to other buildings of similar age and construction type. The quality of materials originally impacts our judgment of their current state.

The life expectancy estimates that we prepare are based on National Association of Home Builders (NAHB) averages, Building Owners and Managers (BOMA) averages, product defined expected life averages, and our own assessment of typical life expectancy based on our experience with similar components in our area.

This report will tell you a great deal about the overall condition of this property. However, this report does not constitute a warranty, an insurance policy, or a guarantee of any kind. Owning any property involves some risk and while we can give an excellent overview of the property, we cannot inspect what we cannot see.

Our inspection and report do not include building code compliance or municipal regulatory compliance. Nor do they include mold investigations, hazardous materials investigations, or indoor air quality analysis.

The purpose of this report is not intended to be a statement of insurability of this property as insurance companies have particular standards for insurability of certain building types and certain building materials.

While we may comment that certain components have been recalled that we are aware of, we are not aware of all recalls. It is beyond the scope of this inspection to determine all systems or components that are currently or will be part of any recall in the future. You may wish to subscribe or contact the CPSC (Consumer Product Safety Commission) web site for recall information regarding any system or component. If a problem is encountered on your property, we cannot be responsible for any corrective action that you take, unless we have the opportunity to review the conditions, before repairs are made.

Please ensure that you have read and understand the entire proposal to perform this Level 2 Reserve Study that was signed prior to our inspection. If you have any questions regarding this document, please contact us.

We appreciate the opportunity to be of assistance and we hope that we have provided you a clear understanding of your financial situation and given you a better overall understanding of the your property. This report supersedes any opinion or discussion that occurred during the inspection and should be considered our complete opinion of the condition of this property.

Please contact us if you have any questions regarding this report. We will be happy to be of assistance.

Sincerely,

Add Sanrold

Jeff Samdal, PE, RS, PRA

APPENDIX

Resume of Engineer Performing Study

Jeff Samdal, P.E., Principal

Professional Qualifications and Experience

Areas of Expertise

Mr. Samdal is the owner of Jeff Samdal & Associates, Inc. (formerly Samdal Engineering), a corporation that specializes in building inspections, engineering, project management, and related services. He is a double-licensed Professional Engineer (Mechanical and Civil) in Washington State. He is also an accredited Building Inspection Engineer (BIE) and Reserve Specialist (RS). He has performed thousands of building inspections as well as numerous additional services such as building envelope investigations, construction management, and general consulting for property owners pertaining to building maintenance and long term budgeting. Mr. Samdal consistently earns repeat and referral business because of his attention to detail, practical approach, knowledge of the industry, and genuine appreciation for clients' concerns for their real estate investments.

Capabilities

Mr. Samdal is experienced at performing residential (single- and multi-family), commercial, and industrial inspections in Washington State and beyond. Mr. Samdal's experience includes the following:

- Property Condition Assessments (PCAs)
- Capital Needs Assessments (CNAs)
- Reserve Studies for Condominiums and Homeowner's Association
- Building Envelope Studies

Relevant Work History

Mr. Samdal has been owner and operator of Jeff Samdal & Associates / Samdal Engineering since 2005. Before concentrating on building inspections, Mr. Samdal worked for Washington Group International's (WGI) Hydropower and Water Resources Group. While working for WGI, Mr. Samdal was involved in rebuilding and rehabilitating hydro facilities. He served as the on-site powerhouse and switchyard inspector during construction. His duties included design, drawing and specification preparation, cost estimating, scheduling, and construction management. Prior to working for WGI, Mr. Samdal worked for Duke Energy in a similar role.

Education

BS in Mechanical Engineering, University of Washington

Licenses and Certifications

- Licensed Professional Engineer (PE), Mechanical Engineering, State of Washington, #40985
- Licensed Professional Engineer (PE), Civil Engineering, State of Washington, #40985
- Reserve Specialist (RS), Community Associations Institute (CAI), #173
- Professional Reserve Analyst (PRA), Association of Professional Reserve Analysts
- Building Inspection Engineer (BIE), National Association of Building Inspection Engineers
- Structural Pest Inspector, State of Washington, #70763

Professional Affiliation

American Society of Mechanical Engineers, 2002 – present

Community Involvement

Mr. Samdal is married with two kids and lives in Woodinville. He has volunteered as a Little League coach since 2009 starting with tee-ball and volunteers as a scout leader.