

# Redmond Pool Energy Audit Report

City Council Study Session  
September 25, 2018



CityofRedmond  
WASHINGTON

# Purpose

- Briefing on Energy Audit of Redmond Pool
- Provide Council with information to support decision making during budget process



# Agenda

- Background on Redmond Pool
- Briefing on Redmond Pool Energy Audit
- Case studies
- Discussion of Short and Long Term Options
- Review Next Steps

# Previous Touches with Council

- Redmond's Community Centers Planning:
  - 4/17/18 Study Session, Stakeholder Recommendations
  - 9/25/18 Study Session, Implementation Plan
  - 20 updates to Parks & Human Services Committee



# BACKGROUND

# Redmond's Community Centers Outreach

## COMMUNITY TOUCHES

Various feedback mechanisms resulted in close to **3,600 touches**

Community Conversations



Online Poll



Phone Survey



Intercept Survey



Other Comments

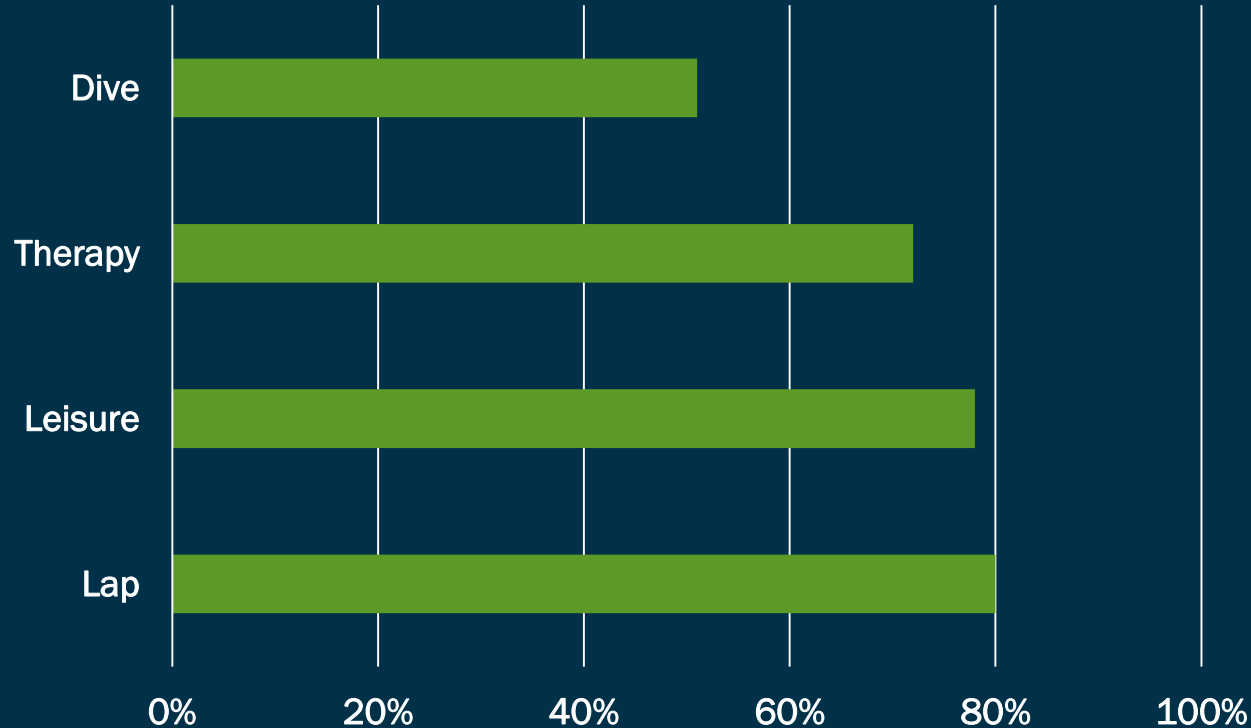


Focus Groups



# Community Priorities for Aquatics

Types of aquatics elements desired:





# Regional Aquatics Partnership

- Results of feasibility study this fall, evaluating:
  - Programs
  - Location
  - Costs & Funding Options





# Redmond Pool History

Date	Investment	Cost
1972	Pool constructed	via Forward Thrust
2010	Pool transferred to City, which then improved: <ul style="list-style-type: none"><li>• Drainage system for regulatory compliance</li><li>• Roof, restrooms, exterior fencing</li></ul>	\$135,000
2010	City partnership with WAVE, which made: <ul style="list-style-type: none"><li>• Water quality improvements</li></ul>	\$5,000
2016	<ul style="list-style-type: none"><li>• Boiler controls</li><li>• Dampers</li><li>• Water circulation pump</li></ul>	\$100,000

# Type of Pool Uses

- 95,000 visits/ year
  - Swim lessons
  - Open swim/lap swim
  - Competitive swim & water polo
  - Aquatic classes
- 4 high school teams





# ENERGY AUDIT

# Energy Systems Condition

Critical: 0-1 year

Pool  
circulation  
pumps  
Air ventilation  
& HVAC  
Boilers  
Heat  
exchanger

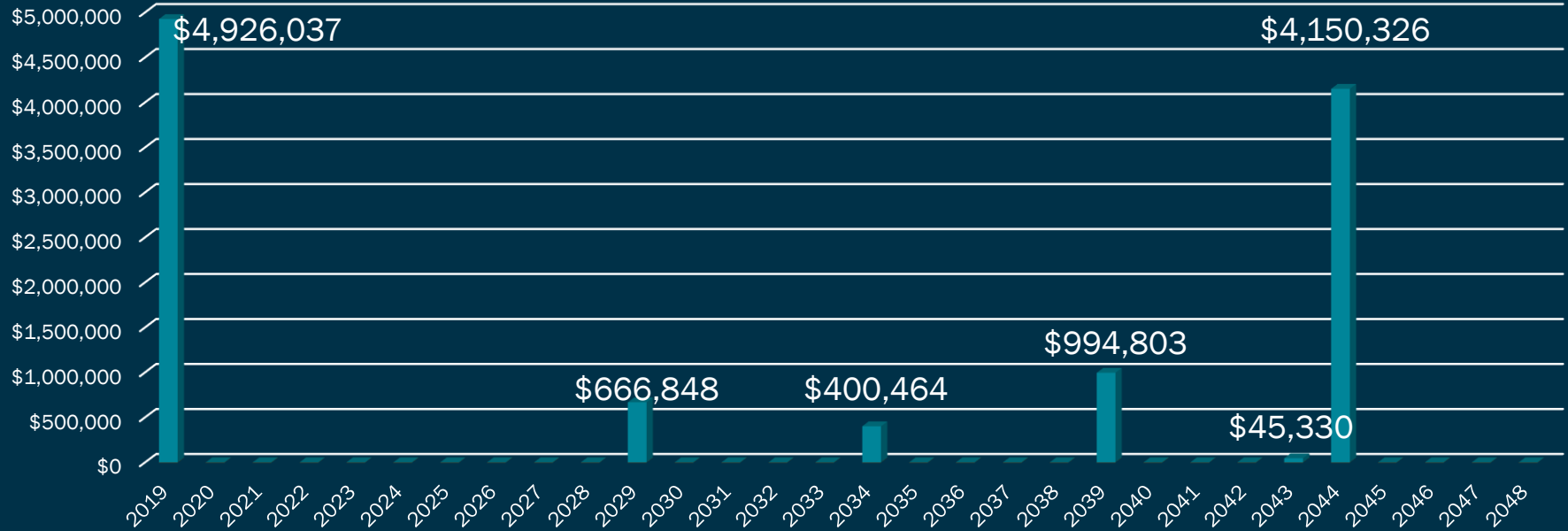
High Priority: 1-2 years

Filtration  
Hot Water  
Electrical  
Panels  
Pool Liner  
Pool  
circulation  
Piping

Medium Priority: 2-3 years

Pool Cover  
Roofing  
Lighting  
Systems  
Building  
Envelope  
Plumbing  
Fixtures

# System Investments – 25 Year Plan





# SHORT & LONG TERM OPTIONS



# Short and Long Term Options

Options	Renovate Lap Pool (6 lanes, 25 Y)	New Leisure Pool (6,000 SF)	Improved Guest Amenities	Cost	Level of Service
1. Decommission				\$800,000	None
2. 5 to 10 Year: Investment in Redmond Pool	✓			\$3,600,000	Maintain
<b>3. 25 Year: Renovate Redmond Pool*</b>	✓		✓	\$8,000,000 (\$5M energy + \$3M non-energy)	Maintain
4. Short to Long Term: Renovate and Expand Redmond Pool	✓	✓	✓	\$25,000,000	Improve

*\* In proposed 2019-2024 CIP*

*All costs assume the use of existing city property and do not reflect any acquisition costs.*



A woman with short, white hair is smiling while sitting in a swimming pool. She is wearing a black sleeveless top. She is holding two blue water resistance paddles in her hands, one in each hand, and is moving them through the water. The water is a clear, light blue color with some ripples. The word "Questions" is written in white text across the middle of the image.

Questions



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