

## Infrastructure and Long-Range Planning Committee – Swimming Pool Complex Analysis

| Component                    | History and/or issue(s) identified   | External Expert  | Follow-up by             | Additional Knowledge thru follow-up   | Alternatives | Estimated Cost | Recommendation to Board  |
|------------------------------|--|--|--------------------------|---|--------------|----------------|--|
| <b>Main Pool</b>             |  |  |                          |   |              |                |  |
| Walls and ground below liner | The pool base floor and walls were the original concrete pool in 1975. It had a history of leaks from the beginning and liners were the hopeful solution to these. In 2011 when the last liner was installed, we needed to replace the drain cover and needed some construction in the drain area to fit the new required covers.  |  |                          |   |              |                |  |
| Liner                        | Liner – we believe is 6 years old with expected life of 10 years. No perceived leaks at this time. We want to determine the source of this estimate, confirm this estimate, see if we can get a representative to inspect the liner with us this Spring when we fully drain the pool, and determine ways that we can expand the liner’s expected life.   | Bryce Jones with Spear Corporation – Drain cover<br>Reno Systems – installed the liner | Kevin Arduini & Jeff Lox |   |              | \$70,000       |  |
| In-pool lighting             | The lights in the pool have not worked for at least 12 years. The external pole lights have been adjusted to direct the lighting at the pool to meet inspection requirements.  |  |                          |   |              |                |  |
| <b>Fencing **</b>            | Needs painting. This would be a great project for a group of volunteer members on a Saturday in May.   |  |                          |   |              |                | This would be a great project for a group of volunteer members on a Saturday in May. |
| Piping into/out of pool      | This is 40+ year old piping with schematics indicating both cast iron and old style drainage tile used when built. The pool even with the liner still has leaking occurring, especially at the end of the summer when there is little rain. Some of this piping could be failing. The grass between the pool and the street has always been moist and when the pool is drained, there has been bubbling coming out of the ground below the pool next to the boat launch parking. |  |                          | We need to get a scope into the piping to see if we can determine the extent to our problems. Steve Harenberg and/or Roger Markle may have access to the equipment needed to do this.   |              |                |  |
| <b>Concrete deck **</b>      | Trip hazards on the pool deck. We believe most could be fixed by raising the concrete. There is one area that needs to be replaced.  | Dave at Concrete Solutions in Eureka who has volunteered to be our concrete expert.    | Jeff Lox                 | There are two ways to raise the concrete – with slurry or with foam. The major downside of foam is that it has to be treated as hazardous material when you tear up the concrete in the future. Even though we may need to replace a lot of this concrete when the piping is addressed, we feel the trip hazards need to be fixed. We will obtain quotes. |              |                |  |

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| <b>Diving Board **</b>                | The old Board needs to be replaced by the new one in the maintenance building.  |                 | Glenda       | The company the board was purchased from will be scheduled this spring to install the new board. |              |                |  |
| <b>Life guard chairs**</b>            | Both need to be replaced. Suggestion would be replace with portable ones.   |                 |              | Possible member carpenter who would be willing to assist.  |              |                |  |
| Electrical other than in-pool lights? | Pole lighting needed for night swimming parties. Work fine at this point.   |                 |              |  |              |                |  |
|                                       |   |                 |              |  |              |                |  |
|                                       |   |                 |              |  |              |                |  |
|                                       |   |                 |              |  |              |                |  |
|                                       |   |                 |              |  |              |                |  |
| <b>Medium Pool</b>                    |   |                 |              |  |              |                |  |
| Cement bottom                         | No issues noted or observed.  |                 |              |  |              |                |  |
| <b>Gate**</b>                         | Need to be fixed or replaced so they are self-closing   |                 | Glenda       | Security Fence will be contacted to replace this.  |              |                |  |
| Piping into/out of pool               | Leaking has occurred between this and the main pool over the years and fixed as needed. May still be issue with wetness in grass between pool and the street. |                 |              |  |              |                |  |
| Drain cover                           | Purchase new ones as needed.  |                 |              |  |              |                |  |
| <b>Small Pool</b>                     |   |                 |              |  |              |                |  |
| Cement bottom                         | Crack on pool floor. This is superficial and no leaking has occurred.   |                 | Glenda       | This pool will be sand blasted and resealed this Spring.   |              |                |  |
| <b>Gate**</b>                         | Need to be fixed or replaced so they are self-closing   |                 | Glenda       | Security Fence will be contacted to replace this.  |              |                |  |
| Piping into/out of pool               | Not sure if this pool also contributes to the wetness in the grass between the pool and the street.   |                 |              |  |              |                |  |
| Drain cover                           | Purchase new ones as needed.  |                 |              |  |              |                |  |
| <b>Pump Room</b>                      |   |                 |              |  |              |                |  |
| Filters                               | Replace them. 50% are in the 2017 budget to be replaced. Very labor intense to remove, clean, and replace during the swimming season.                         |                 |              |  |              |                |  |
| <b>Door to the room**</b>             | Current door does not have vents for airflow. Needs to be replaced. ILRPC recommended to Board with two or three quotes last Spring.                          |                 | Glenda       |  |              | Under \$1,000  | Get the right size door purchased and installed. |

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| <b>Pump Room</b><br>(continued)                             |  |                 |               |   |              |                |                         |
| Pumps   | Current pumps are single-phase. They were rebuilt in 2016. The back-up is stored in the maintenance building so it will not corrode from the chlorine fumes in the room. These are rotated throughout the swim season.   |                 |               |   |              |                |                         |
| Pump and filter system pit                                  | The pit needs a serious assessment. The floor in the pump section is gone. The major concern is the wall between the pumps and the filter tank. Even though the exhaust fan was installed, a fan has to be lowered in to the pump area to keep it cool.                        |                 | Kevin Arduini |   |              |                |                         |
| Exhaust Fan   | This was installed in 2016 and appears to be doing what was requested. However, still wonder why additional fan in the pump section of the pit is needed?  |                 |               |   |              |                |                         |
| Piping inside the room, pit area, and into/out of the room. | Pit are piping replaced last year due to severe corrosion and rusting.   |                 |               |   |              |                |                         |
| <b>Other pump room equipment**</b>                          | We are required to have an automatic chlorine feeder and an automatic acid cleaner feeder.   |                 | Glenda        | These are less than \$200 each and will be purchased and installed before this year's inspection. |              |                |                         |
| Electricity   | We have electrical box capacity if we need another circuit along the way for somewhere else in the building. We have single-phase in the building.   |                 |               | 3-phase electricity is available along the road next to the pool.                                 |              |                |                         |
| Supplies storage  | The chlorine, acid, etc...is stored in the small closet just inside the pump room door on the right. Due to the toxic nature of the items stored over the years, the door has practically disintegrated. Another concern are that children occasionally go thru the open door. |                 |               | Need to review this situation for the safety of all.  |              |                |                         |
|   |  |                 |               |   |              |                |                         |

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| <b>Building</b>   |  |                 |              |  |   |                |  |
| Roof  | This shows not only wood rot issues on the North side over the two bathroom doors, but also one drain shows signs that it may not be draining which may be causing excessive pooling that may be causing the wood rot issue. |                 | Jeff Lox     | Need more thorough assessment of roof and drains. Do drains work? If not, way to divert drained water outside vs going down into the drain tile. | Repair current roof<br><br>Replace total flat roof with rubber membrane.<br><br>Replace with a pitched roof |                | Therefore, the consensus is that a pitched roof needs to be installed with 6-inch gutters and no more costs would be needed for at least 20 years. |
| Walls   | The building blocks and structure should last another 30 to 40 years.  |                 |              |  |   |                |  |
| Floor & flooring  | No issues.   |                 |              |  |   |                |  |
| Piping and plumbing                                       | Not well thought out when built as to access to the pipes in the building. Extremely hard for maintenance to address issues that arise.  |                 |              |  |   |                |  |
| Non-kitchen sinks, toilets, urinals, etc...               | Currently replace as needed.   |                 |              |  |   |                |  |
| Non-pump room doors.                                      |  |                 |              |  |   |                |  |
| Painting  |  |                 |              |  |   |                |  |
| Non-Kitchen & non-pump room electrical inside and outside | No complaints other than the concessions discussed below.  |                 |              |  |   |                |  |
| Wood work – shower area                                   | No known issues.   |                 |              |  |   |                |  |
| Non-Kitchen & non-pump room storage                       | No issues  |                 |              |  |   |                |  |
|   |  |                 |              |  |   |                |  |

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| <b>Concessions Kitchen &amp; Outside Snack Area</b> |  |                 |                 |   |              |                |                         |
| Sinks and other plumbing                            | No issues.   |                 |                 |   |              |                |                         |
| Appliances – microwave(s), refrigerator, etc...     | No issues.   |                 |                 |   |              |                |                         |
| Electrical – inside and outside in snack area       | Circuits have tripped when food warmers, etc...are setup for various events – swim meets, etc...   |                 |                 |   |              |                |                         |
| Storage cabinets                                    | Adequate.  |                 |                 |   |              |                |                         |
| Carpentry   |  |                 |                 |   |              |                |                         |
| Painting  |  |                 |                 |   |              |                |                         |
| Snack area fence                                    | Kids like to climb over the fence versus going through the gate. There is some minor issues where the fence ends next to the main pool fence, possibly from some of this climbs. |                 | Suzanne Wheeler | Should we consider some type of signage to prevent this type of behavior? |              |                |                         |
|   |  |                 |                 |   |              |                |                         |
|   |  |                 |                 |   |              |                |                         |
|   |  |                 |                 |   |              |                |                         |