



# MUNICIPALITY OF ARRAN-ELDERSLIE

STAFF REPORT

COUNCIL

June 14, 2021

SUBJECT: Tara Arena Brine Circulating System

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## **RECOMMENDATION:**

Be It Resolved that Council hereby:

- 1) Receive the Report SRREC 21.15 regarding the Tara Arena Brine Circulating System; and
- 2) That Council hereby approve the T & W Enterprises to complete this project at a cost of \$ 18,472.00 excluding applicable taxes.

Submitted by:

Carly Steinhoff  
Manager of Facilities, Parks & Recreation

Original Signed by

Sylvia Kirkwood  
CAO

## **BACKGROUND:**

Staff has Capital funding available within the 2021 budget to repipe the chiller at the Tara Arena. The funding amount provided was based on external inspection of the system. As the contractor began the project, the header trench was fully exposed and additional areas of concern became visible.

## COMMENTS:

During the 2020/2021 ice season, staff reported brine seeping from connections where the arena pipe is connected to the header pipe. The contractor opened the header trench to expose the complete system and the following deficiencies were discovered:

- The lower header pipe is severely corroded. It has been suggested to replace approximately 16 feet of this pipe.
- Inspection of the remaining headers showed one (1) other section of pipe that should be replaced at the opposite end to the engine room, which is approximately 6 feet in length.
- Header pipe inspection showed about 50 of the 4" nipples, which are welded to the header pipe, to be severely corroded at the area of the weld. These should be removed and refitted with a socket weld flange, designed for such repairs, and new ¾" schedule 80, 4" nipples be welded to the flange fitting.
- The butterfly valve at the discharge pipe from the brine pump to the chiller is corroded and should be replaced.
- The inlet pipe on the suction side of the pump should be replaced from the butterfly valve to the brine pump including the air trap.

To complete the above, the brine system will need to be drained and stored on site. The chiller will have to be protected from exposure to air as the repair process would leave it empty for too long a period promoting internal corrosion of the ammonia/brine tubes. The chiller at the Tara Arena is 20 years old and requires attention for preservation.

Should this project be delayed, it is anticipated that brine loss will continue and will likely increase with the added pressure of deterioration.

## FINANCIAL/STAFFING/OTHER IMPLICATIONS:

Allocated in the 2021 Capital Budget is \$ 5,088.00 under Capital ID 3953. The cost to complete the above is \$ 18,472.00 excluding applicable taxes, which leaves a significant shortfall. Staff are suggesting that the shortfall be funded by realigning the \$ 5,000.00 available for Capital ID 3950, Tara Parks Storage Shed and the remainder being funded from Reserve 01-0000-2181 Reserves-Rec Arena/Community Centres - AE.

Staff will not be seeking funding for the Tara Parks Storage Shed in 2021, due to the rising cost of building supplies and the increased demand of contractors.

Staff are requesting that this project be single sourced, as this work can be completed by the contractor who has an agreement with the Municipality for ongoing maintenance of all ice plants.

#### **CONCLUSION:**

That Council approve the recommendation as presented in report SRREC 21.15 dated June 14, 2021.

#### **APPEDICES:**

Appendix A | T & W Enterprises Quote