



## *Memo*

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To: Board of Directors  
From: Jordan Dietz, Assistant General Manager  
Date: November 10, 2020  
Subject: Electra Well

The Electra Well which was drilled at the end of 2017 was found through water quality analysis to have high amounts of Gross Alpha Radiation caused by groundwater flowing across plates of Subsurface Uranium. This well is thought to be capable of producing and sustaining at least 30 gallons per minute. Multiple companies provided quotes for systems that would provide Gross Alpha Removal on-site.

- AdEdge Technologies has provided an updated and finalized quote of **\$42,000.00**.

This quote includes the costs associated with the delivery and installation of the removal system, minus taxes. Additionally, AdEdge has provided vessel replacement costs for exchanging uranium-filled vessels, which is expected annually with the peak flow rate of the well.

- 3 vessels will need to be exchanged each year, and total **\$15,000.00 per year**.

Additional costs include site paving, well house building construction and any necessary retaining walls.

- Site construction and paving costs are estimated by prior work, at **\$30,000.00**.

A cost recapture can be seen on the following page with these numbers, and given the data we expect to see a full buy-back of the well costs within 15 years. Our current budget for the 2020-2021 budget year includes \$150,000.00 for the development of the Electra Well

| <b>Electra Well Cost Capture</b> |              |
|----------------------------------|--------------|
| Cost of Well                     | \$150,000.00 |
| Cost of AdEdge Unit              | \$42,000.00  |
| Annual Maintenance               | \$20,000.00  |
| Site Preparation (est)           | \$30,000.00  |
| Cost of CLAWA - \$/AcFt          | \$1,254.00   |
| Well Cost - \$/AcFt              | \$390.00     |
| Cost Diff. - \$/AcFt             | \$864.00     |
| GPM through Unit                 | 30           |
| Minutes Per Day                  | 1440         |
| AcFt/Year                        | 48.39351218  |
| Production Cost<br>\$/AcFt/Year  | \$41,811.99  |
| Cost Minus Maintenance           | \$21,811.99  |
| Total Cost                       | \$283,811.99 |
| Buy Back Years                   | 13.01173968  |

**Recommendation:** Approve the quote as provided by AdEdge Technologies for purchase of the Gross Alpha removal system as listed. This will initiate the process, allowing staff to begin site construction with the goal of bringing Electra Well online by this time next year.