



## Request for Council Action

**TO:** Mayor and City Council  
**THROUGH:** Tim Murray, City Administrator  
**FROM:** Travis Block, Public Works Director  
**MEETING DATE:** January 26, 2021  
**SUBJECT:** Accept Quote for Potable Water Reservoir  
Cleaning

---

### **Background:**

Attached is a quote from Liqui-Vision Technology, Klamath Fall, OR, for \$10,145.00 for cleaning and inspection of the two ground reservoirs and elevated sphere (water tower) located at 1225 Parshall St. The tanks were last cleaned by Liqui-Vision Technology in 2018. A written and digital report will be provided after the cleaning and inspection summarizing the recommendations and any immediate needs. There is no sales tax; funding is provided by the Water Fund (601).

### **Recommendation:**

Accept Quote from Liqui-Vision Technology for Potable Water Reservoir Cleaning

### **Attachments:**

- Quote



# LiquiVision DIVING

# TECHNOLOGY SERVICES

Office/Mailing Address  
711 Market Street  
Klamath Falls, OR 97601

Phone: (800) 229-8959 Fax: (541) 883-1361  
liquivision@divingservices.com  
www.divingservices.com

Western Operations  
835 Market Street  
Klamath Falls, OR 97601

Mike Glende  
City of Faribault  
208 NW 1st Avenue  
Faribault, MN 55021

12/1/2020  
Wk: 507-384-0559  
Em: mglende@ci.faribault.mn.us  
\*MN139620R3T\_

We are pleased to provide you the following firm quotation and outline of the conditions of our services.

Tank	Type	Dia. or LxW (Feet)	Hgt. (Feet)	Maximum Calculated Capacity (Gallons)	Surface Area (S.F.)	Price for Diver Inspection Only	Price for Diver Cleaning & Inspection	Price for Additional Sediment Per Hour
Mobilization Charge - Flat charge to mobilize and demobilize to your location.							\$720	\$430
1. Gridor	PBG Concrete	106	27	1,781,464	8,820		\$3,150	
2. Natgun	PBG Concrete	106	27	1,781,464	8,820		\$3,150	
3. Elevated Sphere	111' Ele Tower	30	30	158,550	707		\$3,350	
<b>Pricing is contingent on all work being completed on the same trip. LVT estimates 3 days of work, if more time is needed multiple trips might be required and additional fees may apply.</b>								
Subtotal							\$10,370	
Multitank Discount (after the first two tanks).							(\$225)	
<b>Total</b>							<b>\$10,145</b>	

\*Plus sales tax if applicable

## Scope of Work:

Removal of accumulated sediment from the floor of the tank. The effluent will be disposed of at the districts direction. A final and comprehensive inspection will be performed documenting the condition of the entire structure and recorded on DVD. Written documentation with digital pictures, descriptions of the images and any recommendations will be provided to the district on a USB flash drive.

Our bids are based on a variety of factors that pertain to the length of time it takes to accomplish our work. The main consideration is the amount of sediment that has to be removed, **4" of normal sediment** is included in this bid.

### Initials

Please initial the line items below to verify that you have reviewed them.

- \_\_\_\_\_ Entry hatch on top of the tank is at least 18" diameter.
- \_\_\_\_\_ The water level is kept within ten (10) feet of the top of the tank.
- \_\_\_\_\_ Tank dimensions are correct.
- \_\_\_\_\_ Scope of work is correct.

1. Placement and disposal of effluent removed from the tank is done at the direction of the Customer.
2. Quotes for cleaning assume that the sediment is normal material (such as silt, flocculated material, insects, manganese, rust, etc.) found in potable water tanks that is easily removed by our vacuum system. If the sediment is difficult to remove such as large amounts of concrete chips, gravel, sand, rocks, detached coating debris, etc., then our hourly rate shall apply for each hour (over the first hour) for removing this material.



# LiquiVision Technology

711 Market Street  
Klamath Falls, OR 97601  
Phone: (541) 883-6473  
Fax: (541) 883-1361

3. Unless specified in quote detail we clean all submerged horizontal and angled berms or sloped surfaces 35 degrees or less. Surfaces exceeding this angle such as the walls can be cleaned but must be listed separately in the quote detail or estimated by the divers upon inspection. We do not clean surfaces that are out of the water.
4. If any information provided to us is incorrect or if any problems exist that inhibit our ability to complete the job on a timely schedule, then we will notify you of the problem and reserve the right to add on to the quote based on our estimate of the additional time it will take to complete the work. Charges for time delays are **\$200** per hour. This paragraph only applies to any problems that are your responsibility (i.e. rescheduling with less than 2 business days notice, set up and start of work before cancelation, etc.) Charge for going remote (if required and not addressed in advance) is **\$430** per hour.
5. For coating repair in steel tanks we use a two part underwater epoxy. Each rust nodule or area of coating defect is wire brushed to bare metal and epoxy is applied over the area. The epoxy chemically bonds to the steel, displaces water, and remains intact with a greater bond than the original coating. All of our repair, sealing and coating materials meet or exceed NSF 60 & 61 standards. Repairs are done at the districts direction for the rate of **\$430** per hour and **\$40** per tube of Manus or epoxy.
6. If dechlorination is required it will be charged at **\$15.00** per hour. If filtration is required then the filter bags will be charged at **\$200.00** per bag. Unless specified LVT does not remove the bags they become the districts responsibility to dispose of.
7. If payment is not made within sixty days of the date of the invoice, an interest charge of 3% shall begin to accrue each month on the unpaid balance. This interest will continue to accrue each month until the balance is paid in full. To avoid any interest charges, payment must be received or postmarked within the sixty days following the date of the invoice. Statements will be sent each month to reflect the new balance.

Our cleaning procedure is accomplished utilizing our proprietary vacuum cleaner, the "LiquiVac™" (Patented). The LiquiVac™ pumps an average of 200 gallons per minute. It has a rotating soft bristle brush that scrubs the floor clean and removes all sediment without creating turbidity in your tank. This is the only way to ensure that all biofilm is removed from the interior surfaces without getting any of it mixed into the water column. This system also enables us to clean walls.

In a conscious effort to preserve our nations natural resources LVT will provide our reports to the district on USB flash drives. If you require a printed and bound copy of the reports please notify our office staff. There will be an additional fee of \$125 per copy.

In over 20 years of providing diving services we continue to treat every customer as if they were our only customer. We are dedicated to accomplishing every job with the utmost professionalism, safety and efficiency.

Please sign this quote and FAX both pages back to us with an approximate time frame of when you would like the work done. If you have any questions please give us a call. We look forward to working with you.

Quote is valid for 90 days. Upon signature the work shall be accomplished at a mutually acceptable date within one year.

Sincerely,

Patty Bowers  
General Manager

I find the above and preceding page of contingencies and procedures acceptable.	
Accepted by:	Date:
Signature:	Title: