

**LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT**

**MEMORANDUM**

**DATE:** AUGUST 13, 2019

**TO:** BOARD OF DIRECTORS  
Lake Arrowhead Community Services District

**FROM:**

  
MATT BROOKS, Operations Manager

  
CATHERINE CERRI, General Manager

**SUBJECT:** CONSIDER APPROVING THE PURCHASE OF REPLACEMENT UV LAMPS FOR THE TROJAN UV SYSTEM

**A. RECOMMENDATION**

That the Board of Directors approves the recommendation to purchase seventy (70) Trojan replacement UV lamps from DC Frost and Associates for \$27,907.25, sales tax included. Freight charges will be additional and approximately \$400-\$500.

**B. REASON FOR RECOMMENDATION**

The Trojan UV disinfection system is integral to the Recycled Water process within the Grass Valley Wastewater Treatment Plant (GVWWTP). The Trojan UV system consists of two "trains", each train consisting of sixty-four (64) bulbs. The lamps are certified for 12,000 hours of run life and become less effective after that. This may result in positive coliform bacteria results in the Recycled Water that we supply to the Lake Arrowhead Country Club (LACC) for irrigation purposes. This purchase request is to replace the existing lamps in Trojan "Train B", as the lamps currently have approximately 10,500 run hours on them and will be nearing the 12,000 hour limit by the end of the irrigation season. Also included

in this quote is the purchase of six additional bulbs to replace bulbs that have burned out prematurely and/or are no longer functioning properly in "Train A". District staff will be installing the new UV lamps.

### **C. BACKGROUND INFORMATION**

The GVWWTP can supply up to 1.0 Million Gallons per Day (MGD) of UV disinfected, tertiary recycled water as defined in California Code of Regulations, Title 22, Section 60301.230 to the LACC.

The GVWWTP recycled water system runs close to 100% capacity between the early spring and early fall. It also runs 15%-20% capacity in fall and winter to keep the recycled water system operational and clear of unwanted bacteria growth while sitting in its "off-line" state. Keeping the recycled water system (Pall/Trojan) on-line year-round, albeit not always at full capacity, is due to problems experienced in the past with bacteria growth and equipment failures if the system sits off-line for an extended period.

District Staff requested and received a quote from DC Frost Associates, Inc. DC Frost Associates is the sole vendor of the required Trojan UV lamps. District Staff did not request quotes from any other vendor(s) due to the quality and specialized nature of the product required. Any other type of UV lamp may void the manufacturer's efficiency warranty of the entire UV system, and may also lead to an inferior quality of effluent water produced.

### **D. FISCAL IMPACT**

These UV lamps are a budgeted item and will be funded by Fund 160, Supplemental Water Supply Fund. Fiscal impact will be \$27,907.25, sales tax included, with an additional expense of approximately \$400-\$500 for freight charges. Total budgeted amount for this item is \$25,000. The quotation exceeds the budgeted amount because there was a price increase of approximately 25% per bulb (+\$5,110), and an additional six bulbs are needed due to premature failure/burn-out of bulbs on "Train A" (+\$2,220).

### **E. ATTACHMENTS**

- DC Frost and Associates, Inc. Quote



**DC Frost Associates, Inc**  
 A Coombs Hopkins Company  
 2855 Mitchell Drive, Suite 215  
 Walnut Creek, CA 94598

## Quotation

Date	Quote #
6/26/2019	102378

**Bill To**

Lake Arrowhead Community SD  
 Accounts Payable  
 P.O. Box 700  
 Lake Arrowhead, CA 92352

**Ship To**

Lake Arrowhead Community SD  
 Justin Luck (909-336-7154)  
 27000 Pilot Rock Road  
 Lake Arrowhead, CA 92352

E-mail: [jluck@lakearrowheadcsd.com](mailto:jluck@lakearrowheadcsd.com)  
 Phone: 909-336-7154

Model		Equipment	Project/Serial #	FOB	
UVFit 32AL50		Trojan	710208 (Grass Valley)	Fact. PPA	
Line	Qty	Description	Unit Price	Total	
a	70	Part 794447-0YW, Lamp, GA64T6HE Flat Base (Yellow Ceramic End) FREIGHT CHARGES ARE EXTRA AND WILL BE ADDED TO ALL INVOICES Sales Tax  DC FROST ASSOCIATES, INC. NO LONGER ACCEPTS VERBAL ORDERS.  PLEASE SIGN AND DATE this Quotation and e-mail or fax to the author of the quote along with a copy of your Purchase Order.. By doing this, you are authorizing your acceptance of the Quote and giving approval to place the order. Simply include any Quantity changes, Bill To and Ship To changes along with your signature and date below.  SIGNATURE / DATE / PO#:	370.00  2,007.25  0.00	25,900.00T  2,007.25  0.00	
Quote Prepared By: Debby Patton			<b>Total:</b>	<b>\$27,907.25</b>	

**PRICES QUOTED HEREIN ARE VALID FOR 30 DAYS.**

**Payment Terms: Net 30**

If prices quoted do not include sales or use tax, such taxes, if required, are to be paid by the Purchaser.  
 DCF Terms & Conditions apply on all orders (copy available upon request).

*We are pleased to offer our quotation on the equipment or service listed above.  
 Please contact us if you have any questions.*

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[blanca@chcwater.com](mailto:blanca@chcwater.com)

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