



Memo

To: Board of Directors
From: Karl B. Drew
Date: June 17, 2016
Subject: Telemetry Upgrade

The District's telemetry system is used for monitoring the water storage tank levels, one of the CLAWA connections and the chlorination/orthophosphate treatment sites. We current do not use the telemetry for operate or control. We have had our existing telemetry system in operation since 2001 and it was purchased and installed for \$32,750. The radios that the system uses are no longer available and the system needs to be updated to current technologies.

We have received a quote for updated equipment from McCrometer. The quote for the equipment is \$20,150 plus tax and shipping. Our personnel are very familiar with the equipment setup and will be able to install the equipment.

The main difference with the updated system is that it uses satellite radios to transmit the data to a central location and then we connect to the central system to access the data. This is a pretty reliable system, although there are times when there are interruptions to local internet service. These interruptions would be more critical if we used the system to make adjustments. Since we use telemetry only for monitoring, we can check the tanks and treatment site manually during the periods of interruption.

Another consideration with using satellite communications is that it has ongoing cost. There will be an annual cost operating of about \$3,400 for satellite communications and data collection.

In the past when we have looked at other telemetry systems, the cost has always been in excess of \$50,000. Chris has talked with some local districts that have recently installed telemetry and their costs were in the range of \$300,000.

The system that we use has served our needs well, though it is now reaching its end of life. I would recommend that the Board approve the upgraded system, with the equipment purchase price not to exceed budgeted amount of \$25,000.



Quotation

Quote Number: 143750 Rev 0

PRELIMINARY - NOT A VALID QUOTE

Codes: / /

Company: CRESTLINE VILLAGE WATER DIST.
Address: PO BOX 3347
City: CRESTLINE
State: CA Postal Code: 92325

Quoted By: Steve Jagerhorn
Date Quoted: Expires:
Payment Terms: TO BE ADVISED (TBA)
Shipping Terms: FCA SELLER'S PREMISES (FCA)

Contact: Chris Heryford
Phone #: (909) 338-1727
E-Mail: cfherford@cwwater.com

Project Name: SS to Satellite Site Upgrades

Ship to: (Address#32303)

Line #:	Item Number:	Description:	Qty:	UM:	Price:	Ext. Price:
1.000	630-6030-100D	ASSY,MINI-SAT PREMIUM FIELD Includes: Nema Chassis, Multi Mini, Premium Radio, Satellite antenna with 1.5m of coax, 12v 5Ah Battery. Programmable Reporting Interval. REQUEST: 90 minute Reporting Interval. Analog Ch#1 Enabled Digital Status Ch#1 & Ch#2 Enabled with Events.	13	EA	\$1,550.00	\$20,150.00
2.000	640-6030-PR12BA	ACTIVATION FEE,PREMIUM Activation Charge per station. 1 Spare station will not be Activated.	12	EA	\$50.00	\$600.00
3.100	640-6030-PR12B	SATELLITE CHARGE-PREM.,12,000 Annual Satellite Data Charges for 12 Stations. 1 Spare Station will not be Activated. 12 Kbytes per station per month. Overages will be billed at \$1.25 for 1 Kbyte block per station per month.	144	EA	\$20.00	\$2,880.00
3.200	640-6030-199NA	WEBSERVER,21-99 SENSORS Annual Data hosting charges based on number of sensors. 3 Sensors x 12 station x 12 months = 432 36 Sensors per month Pricing: 1-5 Sensors: \$3.36/sensor/month 6-20 Sensors: \$2.24/sensor/month 21-99 Sensors: \$1.12/sensor/month +100 Sensors: \$0.56/sensor/month	432	EA	\$1.12	\$483.84

Subtotal: **\$3,363.84**

All Prices are in US Dollars (USD)

Total Quoted: **\$24,113.84**

Sensors and Power are on existing system.

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Printed In The U.S.A. 1 Lit. 30121-17 Rev. 1.0/06-13

Printed on 11/19/2015 4:22:41 PM

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