



Utility Committee Meeting

AGENDA

May 2, 2017

I. CALL TO ORDER

II. MATTERS BEFORE COMMITTEE

1. [Purchase - Programmable Logic Controller for Water Treatment Plant](#)
2. [Purchase - Remote Terminal Unit for Water Treatment Plant](#)
3. [Purchase - Monitoring System Control and Sensing Module for Wastewater Treatment Plant](#)
4. [Purchase - Mini-Excavator for Electric Department](#)

III. ADJOURN



Utility Committee Meeting

AGENDA

May 2, 2017

Item:

Purchase - Programmable Logic Controller for Water Treatment Plant

Department:

Additional Information:

Financial Impact:

Budgeted Item:

Recommendation / Request:

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

 [PLC Info](#)



To: Utility Committee
From: Chris Bailey, Purchasing Agent
Department: Water Treatment Plant
Date: 4/27/17
Description: Approval is being sought for the purchase of a Programmable Logic Controller (PLC) for use in the control, logic, simulation, and testing of the SCADA Water Treatment Plant system. Evoqua Water Technologies, LLC is a sole source provider for this equipment, installation, and programming and meets specifications per policy, and has provided a bid of \$68,840.00.

Budget Account/Project Name: 2017 Water (Budgeted) CIP

Funding Source: 2017 Water (Budgeted) CIP

Budget Allocation: \$100,000.00

Budget Available: \$100,000.00

Requested Expense: \$68,840.00

Company of Purchase: Evoqua Water Technologies, LLC

Recommendation:

Staff recommends the APPROVAL of this request based on the information provided for the purchase of a Programmable Logic Controller (PLC) for use in the control, logic, simulation, and testing of the SCADA Water Treatment Plant system from Evoqua Water Technologies. The purchase comes in under budget and follows policy bidding guidelines for sole source purchases.

Background:

It is the practice of the City of Monroe to continually upgrade and update computer operating systems within the Water Treatment Plant.

Attachment(s):

Quote – 3 pages

Sole Source Letter – 1 page



Evoqua Water Technologies LLC
 558 Clark Road
 TEWKSBURY MA 01876
 USA
 Sold-to address:
 MONROE UTILITIES NETWORK
 215 N BRD ST
 MONROE GA 30655

Quotation

Order Date: 01/23/2017
 Sales Order No.: 10140693
 Customer No.: 1060077
 Customer PO No.: QUOTE: GC-170123-1
 Incoterms (part 1): FOB Free on board
 Incoterms (part 2): Free on board
 Payment Terms: within 30 days Due net
 Sales Rep: HEYWARD INC
 Contact Person: Gene Cerilli
 Phone Number: 724-640-5933

PLC UPGRADE

Parts and Labor

Convert PLC5 to Control Logix, Simulate & Test w/SCADA

Install, Set Up Graphic Cleanup, Tag Reassignment

Remote Srvc

On-site Srvc

Estimated Travel Expenses.

Valid from date: 01/23/2017
 Valid to date: 02/23/2017
 Requested Shipping date: 01/23/2017

Line Item	Material Description	Old Part Number	Origin	Qty./UOM	Unit Price	Total Price Currency USD
001000	W2T274758 PLC MOD;CNTRL LGIX CHASSIS;AB;1756-A7 ECCN: EAR99 HTS: 8537109170 Est. Shipping Date: 01/24/2017	,03/31686-02	US	1 EA	590.00	590.00
002000	W2T288545 PWR SUPPY;PLC;O/P 120/240 VAC;O/P 2.8 A ECCN: EAR99 Est. Shipping Date: 01/24/2017	,03/32247-01	US	1 EA	1,010.00	1,010.00
003000	W2T546143 PLC MOD;CPU;I/P 0;O/P 0;24 VDC;0.8 A ECCN: EAR99 HTS: 8537109170 Est. Shipping Date: 01/24/2017	,03/31685		2 EA	5,900.00	11,800.00
004000	W2T290583 PLC,MOD DH+ RMT I/O SCNR ECCN: EAR99 HTS: 8537109170 Est. Shipping Date: 01/24/2017	,03/MEMCOR	US	2 EA	1,390.00	2,780.00



eVOQUA
WATER TECHNOLOGIES

Quotation

Evoqua Water Technologies LLC
558 Clark Road
TEWKSBURY MA 01876

Order Date: 01/23/2017
Sales Order No.: 10140693

Sold-to address:
MONROE UTILITIES NETWORK
215 N BRD ST
MONROE GA 30655

Line Item	Material Description	Old Part Number	Origin	Qty./UOM	Unit Price	Total Price Currency USD
005000	W2T422055 ,03/ PLC MOD;COMM ECCN: EAR99 HTS: 8537109170 Est. Shipping Date: 01/24/2017		US	1 EA	3,200.00	3,200.00
006000	W2T277698 ,03/ SOFTWARE,PCL ECCN: EAR99 Est. Shipping Date: 01/24/2017		US	1 EA	4,995.00	4,995.00
007000	W2T839271 ,03/ COMPUTER, MINI TWR, OPTIPLEX 7040; ECCN: EAR99 Est. Shipping Date: 01/24/2017		1 EA		2,600.00	2,600.00
008000	W2T839272 ,03/ SOFTWARE INTOUCH 60K TAG WITH I/O; ECCN: EAR99 Est. Shipping Date: 01/24/2017		1 EA		5,475.00	5,475.00
009000	W3T6313 Convert PLC5 to Control Logix ECCN: EAR99 Est. Shipping Date: 01/24/2017		US	1 EA	17,000.00	17,000.00
010000	W3T6313 Network Diagram ECCN: EAR99 Est. Shipping Date: 01/24/2017		US	1 EA	580.00	580.00
011000	W3T6313 Re-work Wonderware graphics/Tag reassign ECCN: EAR99 Est. Shipping Date: 01/24/2017		US	1 EA	4,450.00	4,450.00
012000	W3T6313 Remote Service Support ECCN: EAR99 Est. Shipping Date: 01/24/2017		US	1 EA	1,410.00	1,410.00
013000	W3T6313 5 days on-site service 2 days travel ECCN: EAR99		US	1 EA	10,480.00	10,480.00



eVOQUA
WATER TECHNOLOGIES

Quotation

Order Date: 01/23/2017
Sales Order No.: 10140693

Evoqua Water Technologies LLC
558 Clark Road
TEWKSBURY MA 01876

Sold-to address:
MONROE UTILITIES NETWORK
215 N BRD ST
MONROE GA 30655

Line Item	Material Description	Old Part Number	Origin	Qty./UOM	Unit Price	Total Price Currency USD
	Est. Shipping Date: 01/24/2017					
014000	W3T6313 Estimated Expenses ECCN: EAR99 Est. Shipping Date: 01/24/2017		US	1 EA	2,470.00	2,470.00

For domestic shipments the following applies:

These commodities are sold for domestic consumption. Any export of these commodities must be made in accordance with applicable US laws.

For export shipments from the US the following applies:

These commodities, technology or software (items) were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited. These items are not to be used directly or indirectly in prohibited nuclear chemical/biological or missile weapons activities.

Applicable shipping, handling, and taxes
to be added at time of invoicing.

Net Total 68,840.00 USD
Shipping & Handling to be Added

Ship-to address
MONROE UTILITIES NETWORK
205 E MARBLE ST
MONROE GA 30655

Bill-to address
MONROE UTILITIES NETWORK
PO Box 1249
MONROE GA 30655

MEMCOR[®]

an EVOQUA brand

April 27, 2017

To Whom It May Concern:

This letter is to advise that Evoqua Water Technologies LLC is the exclusive supplier for all Memcor Products and services and the sale of all equipment, instruments, spare parts, and products manufactured by Memcor. Evoqua reserves the right to contract certain non-proprietary services through trained and certified contractors to assist in the installation and servicing of Evoqua Water Technologies (Memcor) equipment.

The proposed PLC upgrade at the Monroe Utilities Network includes proprietary instrumentation and control Processes and programming which must be performed by Evoqua to ensure proper operation.

Evoqua Water Technologies LLC utilizes exclusive Distributors and Representatives to promote and support our equipment on a regional basis. This letter is valid until April 27, 2018.

Sincerely,

Matthew Dee

Matthew Dee
Customer Care Manager – Memcor
Office: 978-863-4602
Mobile: 508-558-1628
Matthew.dee@Evoqua.com
www.evoqua.com



Utility Committee Meeting

AGENDA

May 2, 2017

Item:

Purchase - Remote Terminal Unit for Water Treatment Plant

Department:

Additional Information:

Financial Impact:

Budgeted Item:

Recommendation / Request:

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

 [RTU Info](#)



To: Utility Committee

From: Chris Bailey, Purchasing Agent

Department: Water Treatment Plant

Date: 4/27/17

Description: Approval is being sought for the purchase of a Remote Terminal Unit (RTU) for the newly installed High Service Pump (HSP) at the Water Treatment Plant. J.K. Duren Company, Inc. is a sole source provider for this equipment, installation, and programming and meets specifications per policy, and has provided a bid of \$121,500.00.

Budget Account/Project Name: 2017 Water (Budgeted) CIP

Funding Source: 2017 Water (Budgeted) CIP

Budget Allocation: \$135,000.00

Budget Available: \$135,000.00

Requested Expense: \$121,500.00

Company of Purchase: J.K. Duren Company, Inc.

Recommendation:

Staff recommends the APPROVAL of this request based on the information provided for the purchase of the Remote Terminal Unit (RTU) for the newly installed High Service Pump (HSP) at the Water Treatment Plant from J.K. Duren Company, Inc. The purchase comes in under budget and follows policy bidding guidelines for sole source purchases.

Background:

It is the practice of the City of Monroe to continually upgrade and update computer operating systems at the Water Treatment Plant for the most efficient operation of the facility.

Attachment(s):

Quote – 2 pages

Sole Source Letter – 1 page



J. K. DUREN COMPANY, INC.

Box 1124
Roswell, Georgia 30077

Tel: 770-992-5405
Fax: 770-993-0127

April 26, 2107

City of Monroe
Utilities Network
P.O .Box 1249
Monroe, GA 30655

Attn: Doug Samples

RE: Quote 12186

Dear Doug:

The J.K. Duren company, Inc. is the Sole Source Provider for the equipment, programming and installation services listed on Quote 12186 dated April 26, 2017.

Please call if you have any questions or need additional information.

Sincerely,

J.K. Duren Company, Inc.

Ken Duren

KD:nw



J.K. Duren Company, Inc.

P.O. Box 1124
Roswell, GA 30077-1124
770-992-5405
Fax 770-993-0127

Quote

Date	Quote #
4/26/2017	Q12186

Name / Address
City of Monroe Attn: Accounts Payable P.O. Box 1249 Monroe, GA 30655

Description	Qty	Cost	Total
<p>Attn: Cathy Halgut</p> <p>We offer to furnish and install the following to upgrade your SCADA System:</p> <p>Polling Master 1 - New Polling Master Control Panel 1 - Renew FCC License</p> <p>SCADA Computer Upgrade (upgrade computer and combine Hach data and SCADA data to one application) Windows 7 Pro 64 bit Computer with Microsoft Office, 8GB RAM, 1TB hard drive, 2 - serial port, 2 - 24" monitors Upgrade Wonderware license so that it is compatible with Windows 7 Upgrade topserver licenses Report Software License USB to RS 485 converter for Turbidimeters USB to RS 485 converter for Particle Counters Item of Computer set up and software installation Item of converting Wonderware data to Windows 7 format and reformat Wonderware for wide screen views Connect and configure Hach Particle Counter Network Connect and configure Hach Turbidity Network</p> <p>Tank RTUs 3 - New Tank RTU including new controller, radio, antenna, transducer</p> <p>River RTU 1 - New RTU including new controller with touchscreen, radio 1 - Item of rework serial communications to the VFDs</p> <p>Reservoir RTU New RTU including new touchscreen and radio</p> <p>Booster Pump Station RTU 1 - New RTU including controller with touch screen and radio</p>			
This quote is good for 90 days.	Total		

Quote

Item # 2



J.K. Duren Company, Inc.

P.O. Box 1124
Roswell, GA 30077-1124
770-992-5405
Fax 770-993-0127

Quote

Date	Quote #
4/26/2017	Q12186

Name / Address
City of Monroe Attn: Accounts Payable P.O. Box 1249 Monroe, GA 30655

Description	Qty	Cost	Total
<p>In-Plant - New HSP control panel 1 - New RTU for the New High Service Pump installed in plant.</p> <p>Modification of existing in-plant fiber network to utilize existing spare fibers to provide Ethernet connectivity to New HSP control panel and old operator office control panel (polling master) Note: If the City chooses to do their own fiber termination work for this RTU, you may deduct \$2,500.00</p> <p>Price</p>		121500.00	121,500.00
This quote is good for 90 days.		Total	\$121,500.00

Quote



Utility Committee Meeting

AGENDA

May 2, 2017

Item:

Purchase - Monitoring System Control and Sensing Module for Wastewater Treatment Plant

Department:

Additional Information:

Financial Impact:

Budgeted Item:

Recommendation / Request:

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

 [Monitoring System Info](#)



To: Utility Committee

From: Chris Bailey, Purchasing Agent

Department: Wastewater Treatment Plant

Date: 4/27/17

Description: Approval is being sought for the purchase of a Monitoring System Control and Sensing Module for nine (9) wastewater lift stations. Templeton and Associates is a sole source provider for this equipment, installation, and programming and meets specifications per policy, and has provided a bid of \$49,126.00. This purchase also eliminates the need for the additional purchase of monitoring devices in FY18 as proposed in the CIP budget.

Budget Account/Project Name: 2017 Wastewater (Budgeted) CIP

Funding Source: 2017 Wastewater (Budgeted) CIP

Budget Allocation: \$50,000.00

Budget Available: \$50,000.00

Requested Expense: \$49,126.00

Company of Purchase: Templeton & Associates

Recommendation:

Staff recommends the APPROVAL of this request based on the information provided for the purchase of a Monitoring System Control and Sensing Module for nine (9) wastewater lift stations from Templeton and Associates. The purchase comes in under budget and follows policy bidding guidelines for sole source purchases.

Background:

It is the practice of the City of Monroe to continually upgrade and update computer operating and sensor systems within the Wastewater System.

Attachment(s):

Quote – 15 pages

Sole Source Letter – 1 page



QUOTATION

For

**Monroe Utilities
Offered by;
W C Equipment Sales
4324 Brogdon Exchange Suite 100
Suwanee, GA 30024**

**SmartCover® and SmartFLOE™
Monitoring Systems**



Quotation Date: April 25, 2017

Section I: Pricing

Smart Covers is pleased to provide the following Proposal with Pricing (Section 1), System Description (Sections 2-%) and Warranty (Section 6).

Pricing Summary

Part Number	Description	Unit Qty.	Unit Price (Each)	Extended
SF-Q-S-15/25	SmartCover® system components: E-Box System Control with onboard computer, modem; fully potted and IP-68 rated. Distance Sensing Module (DSM) with 3" to 81" sensor range, with 15' cable. Mounting bracket kit with brackets and mounting hardware PowerPack® - lithium thionyl chloride battery with high power density. E-Square™ antenna , installation kit. Installation kit for antenna	9	\$4,895	\$44,050.00
Warranty	One (1) year, parts-only limited warranty on all system SmartCover® hardware. See Warranty Statement for complete details.	9	Included	Included
AMS-SC1	Active Site Monitoring, One-Year includes:: Software subscription with <i>unlimited users</i> . Unlimited data storage Provides regular updates and upgrades including the all new <i>SmartTrend™</i> . Satellite connectivity service to the Iridium Satellite System Ongoing technical support via phone or online.	9	\$364	\$3,276.00
IST-1	Initial Set-up & Training: first-time customers only, one-time charge. <ul style="list-style-type: none"> • Dedicated, secure Customer Website Set-up. • Browser-based website with map of all installation sites, individual site data and graphs; Alarm set-up per site with User alarm receipt protocols. • Onsite maintenance and software training <i>Note: this is a one-time charge and does not apply to follow-on orders.</i>	1	\$300	\$300.00
OPTIONS- SmartCover®				
EW-SC2	Extended Parts Warranty covering 2nd & 3rd Year: <ul style="list-style-type: none"> • E-Box System Control • Distance Sensing Module (DSM) • Antenna • Mounting bracket. PARTS ONLY Warranty NOTE: Discounted herein only if ordered at the time of the initial order Does not include PowerPack Warranty, see below.	1	\$742	
PW-LTC1	PowerPack Warranty- extends warranty covering the 3rd Year NOTE: Discounted herein only if ordered at the time of the initial order	TBD	\$199	NA

ASM-SC1	Active Site Monitoring, 1 year (for the 2 nd Year of service). NOTE: Discounted herein only if ordered at the time of the initial order.		\$364	NA
Part Number	Description	Unit Qty.	Unit Price (Each)	Extended
OPTIONS- SmartFLOE™				
SP-24-A	Stabilizer platform adjustable to 24" wide shelf for ultra-sonic head. Consult with Hadronex Applications Engineers to determine if required	TBD	\$1,195	NA
SW-SR-2460	Stilling well for standard-range sensor. Length of stilling well is customized per application from 3' to 6' in one foot increments Provides a dynamic measurement range of 81". NOTE: upon survey of the site, length is determined.	TBD	\$287	NA
SW-LR-2460	Stilling well for long-range sensor. Length is customized per application from 3' to 6' in one foot increments Provides a dynamic measurement range of 20' (240"). NOTE: upon survey of the site, length is determined.	TBD	\$287	NA
ASM-RD1	Smart Rain, One Year Subscription (No. of Locations)		\$96	
Shipping	Shipping	1		Included
Start Up	Start Up & Installation Days	1.5	\$1000	\$1,500.00
Taxes	Sales Tax (General Contractor @ 7%)			N/A
			Total	\$49,126.00

Delivery

Four (4) weeks: upon receipt of a Purchase Order and receipt of complete engineering and site information as requested. Every reasonable effort will be made to provide earlier delivery if requested.

Ongoing Annual Costs

After the first year of operation, the following fees will provide **continued software support, satellite connectivity and power**. These are annual charges paid prior to the start of the year.

Active Site Monitoring

ASM-SC1	\$364
<i>One-Year software subscription, satellite connectivity, online maintenance, online S/C monitoring per unit per year.</i>	
ASM-SC2	\$679
<i>Two-Year software subscription, satellite connectivity, online maintenance, online S/C monitoring per unit per year for two years.</i>	
ASM-SF1	\$595

One-Year software subscription, satellite connectivity, online maintenance, online S/F monitoring per unit per year.

ASM-SF2 **\$1107**

Two-Year software subscription, satellite connectivity, online maintenance, online S/F monitoring per unit per year for two years.

Options:

PowerPack Warranty

Power Pack Warranty (PW-LTC1): **\$199**

One-Year PowerPack Warranty for each installation site, part-only warranty on the PowerPack offering unlimited replacements during the Warranty term

Power Pack Warranty (PW-LTC2): **\$358**

Two-Year PowerPack Warranty for each installation site, part-only warranty on the PowerPack offering unlimited replacements during the Warranty term.

Optional after First Year

Extended Warranty- parts-only warranty extension after the first year.

This warranty covers: E-Box System Control, Distance Sensing Module (DSM), antenna, and mounting bracket. This is a PARTS ONLY warranty.

1 Year Extension (EW-SC1) per unit: **\$ 399**

2-Year Extension (EW-SC2) per unit **\$ 742**

Terms and Conditions

- Payment: Net 30 days
- Late charges: A service charge of 1.5% per month will be added to all balances unpaid 30 days after invoice date. Failure to pay in accordance with these terms may void all warranties.
- Quote Validity: This proposal is valid for **90 days**.
- Cancellations: for all orders of less than \$10,000, cancellation is accepted prior to shipment. For orders equal to or greater than \$10,000, a 15% restocking charge is applied for cancellation.
- Returns: returns are accepted with a valid Return Material Authorization (RMA) number only.

End Section 1, proceed to Section 2, next page.

Distance Sensing Module (DSM)

The ultrasonic distance sensor is encased and sealed in an ABS housing. It is fully potted and completely water-proof, meeting IP-68 standards. The crystal controlled oscillator sensor is self-calibrating.

There are two ranges available. The standard range senses between 3" and 81" while the long-range sensor's range is 11" to 240".

The DSM has two standard cable lengths of 15' and 25'. Custom lengths are available, application dependent, up to 300'.

Hadronex Application Engineers are available to assist users to determine the correct DSM range and cable lengths.



SmartCover® DSM

E-Series™ Antennae

The E-Series™ antennae include the "E-Square" and the "E-Dot" types. Both are traffic rated and designed to mount directly to the manhole cover or vault lid. They communicate directly to the Iridium Satellite System and do not require any intermediary devices for boosting signals. The antennae are secured to the top of the manhole cover using a high strength, two-part acrylic adhesive specifically designed for high stress applications.

The E-Square antenna is a road-reflector type used in areas where there is no opportunity for dislocation from such hazards as snow plows.

The E-Dot antenna is for cold-weather climates where snow plow operation occurs and are designed to be mounted below the manhole profile.

E-Square™ Antenna



E-Dot™ Antenna

Mounting Bracket Kit

The mounting bracket is a ruggedized, corrosion resistant assembly designed to protect and secure system components. The bracket is secured with two stainless steel bolts whereby the installer drills two 1/4" holes into the cover. The bracket is designed in such a manner such that **NO CONFINED SPACE ENTRY IS REQUIRED FOR INSTALLATION**. Its hard-anodized aluminum housing encloses the PowerPack and the E-Box control. The DSM (distance sensing module) is connected to the E-Box and suspended via a cable, typically over the invert.

The bracket is supplied as a three-piece kit for mounting directly to the underside "flat" of the manhole or, alternately, to the manhole cover vein.

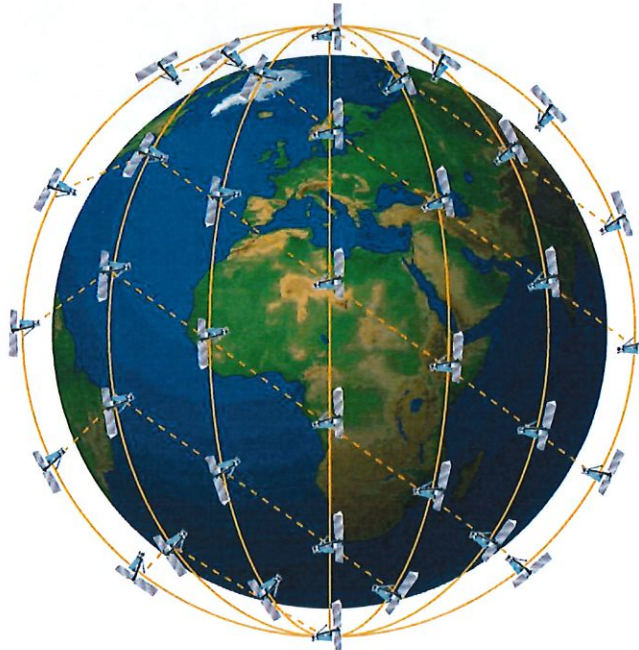


Bracket with E-Box and PowerPack on underside of manhole cover.

SECTION 3. DESCRIPTION OF THE SATELLITE COMMUNICATION SYSTEM

The SmartCover® system uses the high reliability **Iridium Satellite System** as its communications backbone. Iridium is a state-of-the-art system consisting of 66 Low Earth Orbiting (LEO) satellites. It provides highly superior connectivity to that of terrestrial systems such as GSM, GPRS and other cell phone based systems. With the distribution of satellites across the globe, connectivity can be achieved with a small fraction of the horizon available. SmartCover® communication is established in challenging locations with such impediments as tree canopies or overpasses. Iridium has a very strong record of performance and reliability.

SmartCover® data is highly secure with servers using 2048 bit encryption. These are redundant servers located in a climate controlled, secure facility with emergency power to prevent any interruptions. Servers store Historical Communication, Data, and Data Access information. Being a web or “cloud” based system; data is available at all times through a browser from a computer, tablet or phone. Users can access data through any web browser to the server via encrypted data and send notifications directly to the user.



Iridium Satellite Constellation

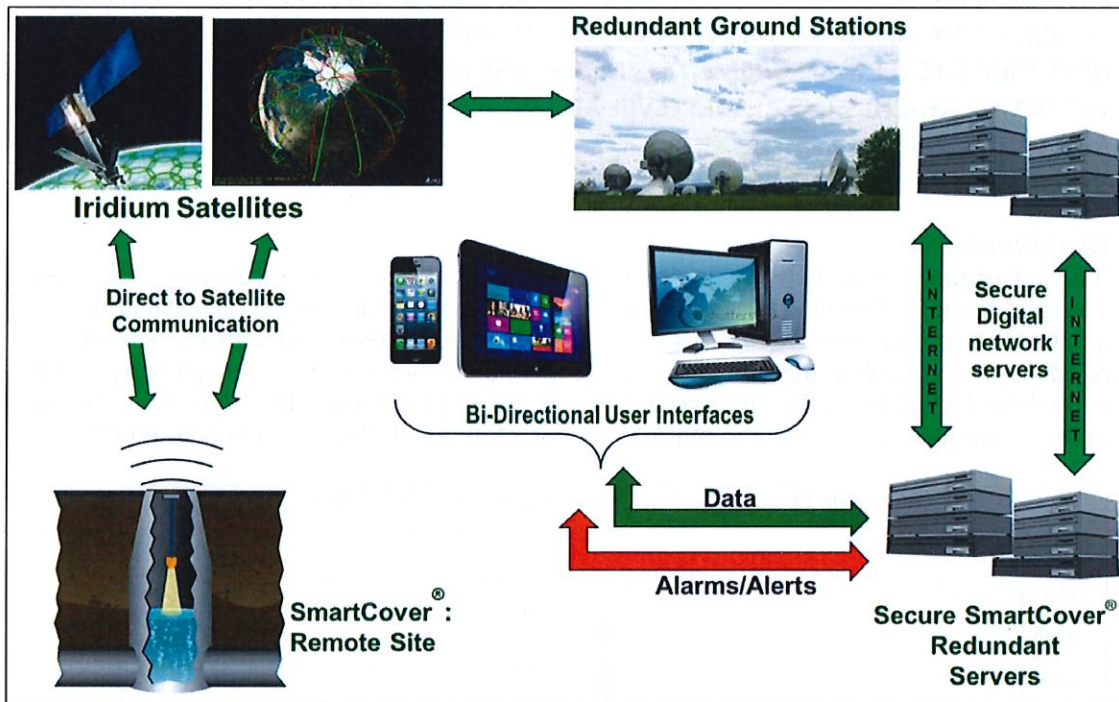
The Communication Process

As per the diagram below, the SmartCover® system communicates directly to an orbiting satellite. The communication signal is then sent to Iridium earth link stations and then to Hadronex secure servers.

For alarm signals, they are subsequently sent to the Customer via cell phone, Smart Phone, digital pager and/or to computers via the internet. It is possible to have alarms sent to a central control room as well.

SmartCover® communication is bi-directional. The user, for example, may change the alarm distance setting or turn the system "on" or "off". These are accomplished through a web browser where the user logs onto the secure, dedicated Customer Web Page. The user then accesses Customer Management Page to change a given setting. The setting change is communicated from the Hadronex servers through the Iridium system and to the SmartCover® system at the designated site.

A major benefit of the Hadronex system is that data acquisition, alarms and system setting changes are enabled *remote from the installation* site saving time and resources.



SmartCover® communications system

SmartCover® System Operation

The SmartCover® system functions by the distance sensing module (DSM) taking a measurement every 6 minutes. Monitoring occurs 24 hours per day, seven (7) days per week.

Data Measurement Frequency

If the water being monitored is below the alarm level, the SmartCover® logs alternate readings, (every 12 minutes, five times per hour). These readings are “batched” and sent once per hour via satellite to the server and stored for user access such as trending and analysis.

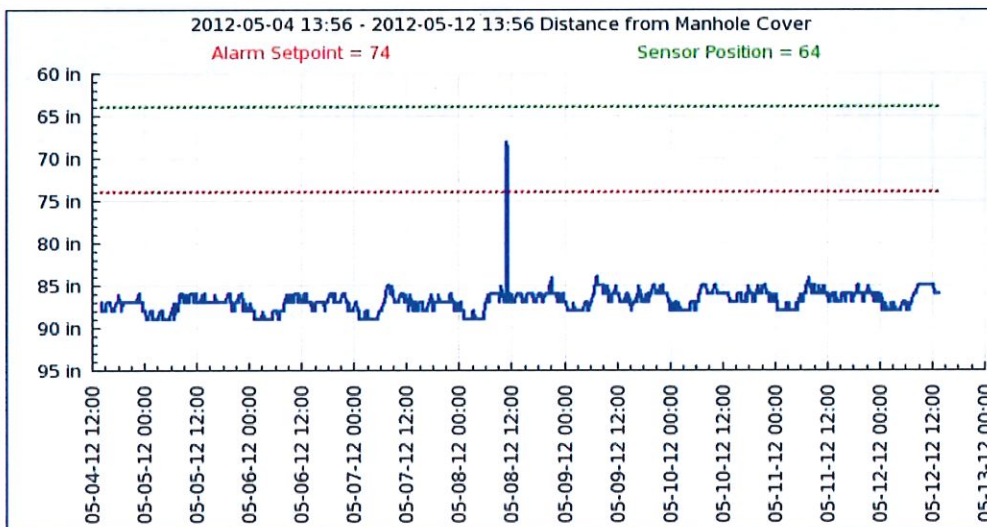
Alarming

If the SmartCover® system measures and senses that the water it is *above* the alarm level, an alarm notification is sent to the users by a pre-established communication protocol i.e., text message to a mobile device or an email message to a computer. Alarms through cell phones or pagers are via Short Message Service (SMS), or Smart Phones and emails via email messaging. A dedicated direct-from-satellite handheld system is available option for highly critical communications. Contact Hadronex for more information.

A LEVEL MEASUREMENT IS TAKEN EVERY 6 MINUTES AND DATA IS UPDATED ON THE SERVER EVERY HOUR. IN THE EVENT OF A HIGH WATER EVENT, THE ALARM IS SENT THE NEXT TIME A LEVEL MEASUREMENT IS MADE. THE LONGEST TIME BETWEEN THE TIME THE WATER REACHES THE ALARM LEVEL AND WHEN THE ALARM SOUNDS IS 5 MINUTES AND 59 SECONDS.

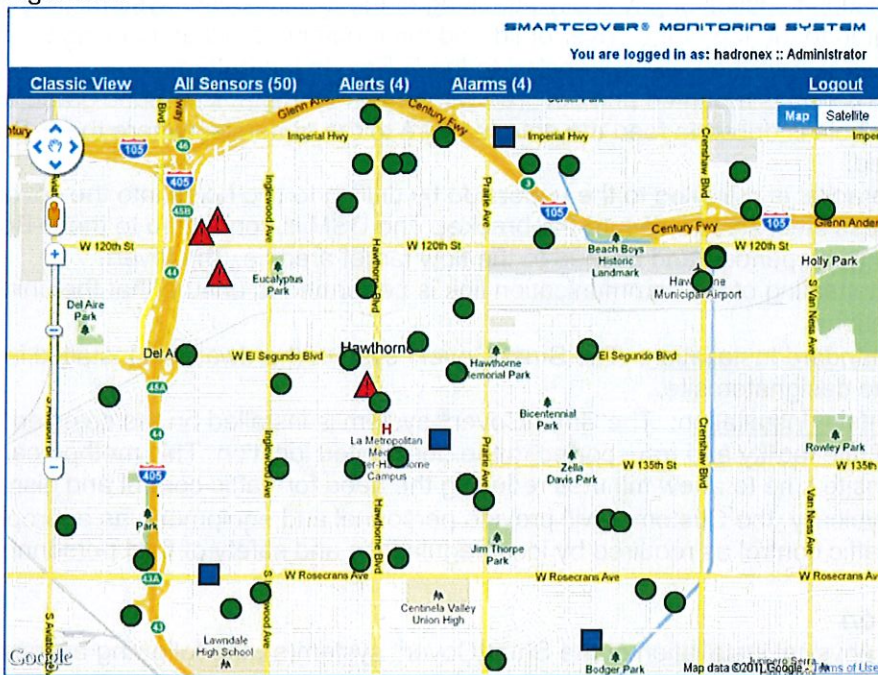
Graphical Data

A typical graph (below) illustrates what can be viewed on the secure Customer Web Page. This graph shows that flow levels are below the alarm level for several days with one surcharge occurring thereafter. This event exceeds user-determined alarm level and enables an alarm. Note that the alarm is set well below the level where a spill may occur and allows for sufficient time to respond. In this case the bottom of the sensor is 64 inches from the manhole cover and the alarm is set for 74 inches below the manhole cover.



System Map

When the user opens their secure web page they are able to view the location of every SmartCover® system. The map function has three, colored-coded symbols for ease of viewing and management.



Color Coded Symbols

GREEN (circle) – Indicates that the SmartCover® system is functioning properly and that the site does not have any alarms.

BLUE (square) – Indicates an “alert” and that a SmartCover® maintenance action is required. For example, it could mean the battery has low voltage and needs to be replaced or that a unit has not communicated within the expected interval.

RED (triangle) – Indicates that an “alarm” condition exists at this location. It could be high water event or an intrusion. Action is required.

SECTION 4. INSTALLATION AND ACTIVATION

Installation

Installation consists of physically attaching of the SmartCover® system. The antenna is mounted to the top of the cover or lid and the mounting bracket, housing the PowerPack and E-Box with the DSM connected to the E-Box, to the bottom.

The antenna is mounted and secured with a high strength, MIL-Spec grade adhesive and a hole is drilled to feed the antenna wire to the underside where the E-Box control is located.

The bracket is mounted to the underside by drilling to two holes into the cover or lid. Two stainless steel screws secure the bracket. The DSM is connected to the E-Box control and it is suspended and aligned to the flow target area i.e., the invert.

On-site testing of the communication link is performed to ensure that the unit is operational.

- Standard Installation: The SmartCover® system (hardware) is installed in the field at the designated site.
- Offsite Installation: The SmartCover® system is installed on the selected cover at an offsite facility and transported to the designated location. This method can minimize onsite time to a few minutes reducing the need for traffic control and disruption.
- Typically, the Customer will provide personnel and equipment, as appropriate for traffic control as required by local regulations and safety of field personnel.

Activation

After the physical installation of the SmartCover® system(s), the following actions are taken to bring full functionality to the SmartCover® system.

- ***SmartCover® Activation: Customer Actions***
 - Upon receipt of a Purchase Order, Hadronex the user will receive a questionnaire to obtain the information necessary to perform the SmartCover® service Set-Up. Proper system operation is dependent upon receipt of required information.
 - This information is used as part of installation where communication will be tested to verify functionality.
- ***SmartCover® Activation: Hadronex Actions***
 - At the Hadronex technical Support offices, the secure Customer Web Site is set up including a private account and database on the Hadronex secure server.
 - Web site is configured for the Customer Web Site with SmartCover® system locations and users.
 - Initial population of the Customer SmartCover® database.
 - Registration of the SmartCover® system wireless radios with the network and setting the Customer default system operational parameters.

The installation and activation process typically takes one hour per unit to perform under normal conditions.

Training

Training is provided after completion of the installation process. Once on-site personnel are trained, Hadronex will be available to provide additional web site training remotely after the SmartCover® system has been installed and operational.

SECTION 5. ACTIVE SITE MONITORING

Active Site Monitoring (ASM) is a **compressive support service** for the SmartCover® system. It includes software support, satellite connectivity and ongoing technical support with these three elements described below.

It is an annual, per site service provided by Hadronex. ASM includes but is not limited to:

- **Website hosting-** initial set-up and ongoing hosting of all software and customer data. Note that all data is owned by the customer.
- **Website / Software Upgrades-** from time to time Hadronex provides new features and tools at no charge including such features supporting improved analytical tools, improved graphical tools and new reports.
- **Website maintenance** – maintaining the secure servers on which your web site resides, and providing free upgrades to the web sites as they become available.
- **Standard Reports** - Hadronex will support Customer in the preparation of these reports for management or regulators **Technical Telephone Support** - This service is offered by the Hadronex Technical Services team from 7am to 5 pm Pacific time and with additional support from local representatives.
- **Management Oversight**
 - Hadronex Technical Services team monitors the proper operation of all installed systems including battery voltage, the radio signal strength and the communication to/from the systems.
 - Hadronex coordinates the appropriate service to repair any components in the field with you or the local dealer
- **Alarm Processing** – maintaining the infrastructure of the alarm contact system.
- **After Hours Support** – on an as-needed basis. Contact Hadronex for details
- **Wireless Communications Connectivity** – Access to the two-way, wireless satellite network.

Product Improvements

The SmartCover® is continuously improving, adding new features and functions. Hadronex often uses customer input to add new features. Product improvements are backwards compatible to existing satellite systems with 0.10" resolution. There is no charge for these improvements as they are part of the annual ASM.

SECTION 6. ADDITIONAL TERMS & CONDITIONS, LIMNITED WARRANTY

Mutual Hold Harmless. Hadronex hereby holds Customer harmless from any and all claims that may arise, or damages that may result, to Hadronex or Hadronex staff during the performance of this contract. Customer hereby holds harmless Hadronex, its founders, owners and staff, from any and all claims that may arise, of any kind or from any cause whatsoever, due to or as a result of the installation, operation, or use of the SmartCover® system.

Loss of Communications. Customer acknowledges that Hadronex is not responsible for the loss of wireless communication or internet communications or any communications used in the operation of this system.

Advisory Only. The SmartCover® System is an advisory service only. As such, Hadronex and its founders, owners, or staff are not responsible for any damage of any kind or from any cause whatsoever that may result from, in relation to, in connection with, due to, or as a result of the installation or operation of the system, including without limitation, equipment failure, or any consequential damages caused by, or resulting from, the use or installation of the SmartCover® system.

Limited Warranty

The equipment components of the SmartCover® system are warranted free from material defects of material and workmanship for a period of one year from the date of installation. Unless otherwise stated, the Hadronex warranty herein is a parts-only warranty. Should the Customer discover any condition that might invoke a warranty claim, they are to expeditiously and without delay notify the Hadronex Technical Services group. Upon notification, Hadronex will assess and instruct the user on follow-on actions. Should a component fail as a result of a defect in material or workmanship, Hadronex will replace the component or repair it at the Hadronex location. For all valid warranty claims, as determined by Hadronex, reasonable freight charges to and from Customer shall be paid by Hadronex. In all cases, Hadronex shall determine the shipping method and/or carrier unless otherwise agreed to in writing by Customer and Hadronex. Upon approval of a warranty failure by Hadronex, Hadronex will either repair or replace the defective component at Hadronex' sole discretion.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). REPAIR OR REPLACEMENT IN THE MANNER PROVIDED ABOVE SHALL BE THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF WARRANTY AND SHALL CONSTITUTE FULFILLMENT OF ALL LIABILITIES OF HADRONEX WITH RESPECT TO THE QUALITY AND PERFORMANCE OF THE PRODUCTS.

THIS WARRANTY DOES NOT COVER DAMAGE OR REPAIRS OR REPLACEMENTS BY ANY CAUSE BEYOND THE CONTROL OF HADRONEX, INCLUDING ACTS OF NATURE, IMPROPER USE, LACK OF PROPER MAINTENANCE OR UNAUTHORIZED REPAIR.

REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY. HADRONEX SHALL NOT BE LIABLE FOR ANY ACTUAL, EXEMPLARY, INDIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING DAMAGES FOR LOSS OF GOODWILL OR PROFITS AND/OR LOSSES FROM ANY CAUSE WHATSOEVER, EVEN IF HADRONEX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

In no event shall HADRONEX's liability, whether in contract or in tort (including negligence and strict liability), exceed the price of the Product from which such liability arises.

Signatures

Hadronex

City of

Signature

Signature

Date

Date



Date: August 13, 2015

Sole Source Letter

This letter confirms that *Templeton and Associates / WC Equipment Sales with corporate offices located at 4324 Brogdon Exchange, Suite 100, Suwanee, GA 30024*, is the authorized and exclusive distributor of all SmartCover® Systems™ products, including the award winning SmartCover® and SmartFLOE® in the *State of Georgia*.

The SmartCover® and SmartFLOE™ systems are patented and proprietary systems designed and manufactured by SmartCover® Systems™. They provide users with unique qualities and functions to acquire water level data below the manhole cover or lift station lid, or other structures with open channel flows, using ultrasonic technology. The system acquires and transmits data and provides 24/7 user access via a secure web browser through a dedicated, secure user website.

These systems uniquely provide real-time, continuous monitoring capability operated by a long-life, lithium thionyl chloride battery which communicates by digital radio through the Iridium satellite system. They provide users with trend data, alarms for surcharges and intrusions, and alerts for maintenance of the monitoring system, all of which provide intelligence to users for corrective action. These systems are protected by the following US Patents 7,292,143, 7,948,215, 7,944,352, 7,598,858 and 7,589,630. The product is also protected by registered trademarks and international patents.

Sincerely,

Jay Boyd
Vice President of Sales & Marketing
(760) 291-1980
jboyd@hadronex.com



Utility Committee Meeting

AGENDA

May 2, 2017

Item:

Purchase - Mini-Excavator for Electric Department

Department:

Additional Information:

Financial Impact:

Budgeted Item:

Recommendation / Request:

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

 [Mini-Excavator Info](#)



To: Utility Committee
From: Chris Bailey, Purchasing Agent
Department: Electric
Date: 4/24/17
Description: Approval is being sought for the purchase of a mini-excavator for the Electric Department. Bids were sought per policy, and the low bid of \$59,347.27 from Mason Tractor Company is the low bid.

Budget Account/Project Name: 2017 Electric (Budgeted) CIP

Funding Source: 2017 Electric (Budgeted) CIP

Budget Allocation: \$75,000.00

Budget Available: \$75,000.00

Requested Expense: \$59,347.27

Company of Purchase: Mason Tractor Company

Recommendation:

Staff recommends the APPROVAL of this request based on the information provided for the purchase of the Kubota KX057-4R3AP mini excavator from Mason Tractor Company. The purchase comes in well under budget and follows policy bidding guidelines.

Background:

It is the practice of the City of Monroe to continually purchase equipment as needed to provide a more efficient operational standard.

Attachment(s):

Quotes – 3 pages

Chris Bailey

From: Randy Rawlins <randy@masontractorco.com>
Sent: Tuesday, April 11, 2017 9:37 PM
To: Chris Bailey
Subject: Kubota KX057-4R3AP Excavator Bid Equivalent to Takeuchi TB260 Excavator

Chris,
 Below you will find a Government Bid Pricing on a Kubota KX057-4R3AP Equivalent to Takeuchi TB260 Excavator.

New Kubota KX057-4R3AP, Rubber Track, Enclosed ROPS/OPG Cab with A/C and Heat. Engine; V2607 Kubota DI CRS Tier 4 Final Diesel Engine, 4 Cylinder, 47.6 Gross HP @ 2200rpm's, Includes ECO Plus System, Auto Idler, Suspension Seat, Hydraulic Pilot Controls, Two Operating Patterns, Digital Control Panel, Service Alerts, Attachment Flow Presets, Key Switch Stop System, Five Second Quick Preheat System, Auto-Downshift Two Speed Travel System, Self Bleed Fuel System. Kubota 3-Hydraulic Pump Load Sensing System, 19.8 gpm Adjustable Auxiliary Hydraulics Port 1, Auxiliary Hydraulics Diverter Valve, 9.8 gpm Adjustable Auxiliary Hydraulics Port 2. Digging Depth @ 12' 8.2", Digging Radius at Ground Level @ 20' 0.5" , Dumping Height @ 13' 8.6"
 Front Float Angle Dozer Blade
 Hydraulic Thumb Kit Installed
 Quick-Attach Coupler Installed
 QA 24 » Trenching Bucket Installed
 Weight as equipped, 12,842 lbs.
 Machine PDI and Delivered with Manuals, \$ 59, 347.27

Please call with any questions that you may have,
 Thanks



Randy Rawlins
 Mason Tractor Co. Inc.
 Government Sales
 Forrestry Division GM
 5038 Buford Hwy.
 Norcross, GA. 30071
 #770-851-6871
 randy@masontractorco.com

Item # 4



BRANCH L72
50 TRADE STREET
BOGART GA 30622
706-354-0101
706-548-7842 FAX



EQUIPMENT SALE QUOTE

145758668

Job Site

MAINTENANCE SHOP
213 CHERRY HILL RD
MONROE GA 30656-2906

Office: 770-267-7536 Cell: 678-478-9403

CITY OF MONROE
PO BOX 1249
MONROE GA 30655-1249

Customer #	: 793027
Quote Date	: 04/13/17
UR Job Loc	: 213 CHERRY HILL RD,
UR Job #	: 2
Customer Job ID:	2
P.O. #	: QUOTE
Ordered By	: CHRIS CROY
Written By	: JAMES PYLE
Salesperson	: SARAH COCHRAN

**This is not an invoice
Please do not pay from this document**

Qty	Equipment #	Price	Amount
1	9070100 CC: 907-0100 MINI EXCAVATOR 10000-14000# Pricing for TB260C with Cab, AC & Heat, Quick Connect coupler, 24" Bucket, a thumb, and ANGLE BLADE. Freight is included in price.	63764.79	63764.79
Sub-total:			63764.79
Estimated Total:			63764.79

Customer is hereby notified that United Rentals has assigned its rights (but not its obligations) in the agreement to sell all or any of the used equipment described herein to United Rentals Exchange, LLC., a qualified intermediary, as part of a Section 1031 like-kind exchange program.

Note: This proposal may be withdrawn if not accepted within 30 days.

THIS IS NOT AN EQUIPMENT SALE AGREEMENT/INVOICE. THE SALE OF EQUIPMENT AND ANY OTHER ITEMS LISTED ABOVE IS SUBJECT TO AVAILABILITY AND ACCEPTANCE OF THE TERMS AND CONDITIONS OF UNITED'S EQUIPMENT SALE AGREEMENT/INVOICE, WHICH MUST BE SIGNED PRIOR TO OR UPON DELIVERY OF THE EQUIPMENT AND OTHER **Item # 4**

Chris Bailey

From: Jimi Martin <takeuchijimi@yahoo.com>
Sent: Thursday, April 13, 2017 8:51 AM
To: Chris Bailey
Subject: Re: Price Quote!

Yes, it would add \$2,350.00 to the total (\$68,750.00).

From: Chris Bailey <CBailey@MonroeGA.gov>
To: "takeuchijimi@yahoo.com" <takeuchijimi@yahoo.com>
Sent: Thursday, April 13, 2017 8:37 AM
Subject: RE: Price Quote!

Can we also add a 3way articulating front blade?

From: takeuchijimi@yahoo.com [mailto:takeuchijimi@yahoo.com]
Sent: Tuesday, April 11, 2017 10:32 AM
To: Chris Bailey <CBailey@MonroeGA.gov>
Subject: Re: Price Quote!

Good morning! Please find below the requested information.

2017 Takeuchi TB260 rubber track excavator, equipped with cab,heat,air, quick coupler, 24" bucket and a hydraulic thumb. 2 year/2000 hour warranty.
 \$66,400.00

Thank you,
 Jimi Martin
 Perimeter Takeuchi
 3022 Peachtree Ind. Blvd.
 Buford, Ga. 30518
 Cell 770-231-5236
 Office 770-614-5730

Sent from my iPad

On Apr 11, 2017, at 10:06 AM, Chris Bailey <CBailey@MonroeGA.gov> wrote:

Good morning, hope all is going well! We need another excavator...it'll be the same as you just quoted for Rodney last year. Can you provide me a bid for the following, or equivalent...

Takeuchi TB260 rubber track excavator, enclosed cab with heat/air, quick coupler, 24" bucket with hydraulic thumb.

Thank you!

Item # 4