

**Request for Legislation**

**An ordinance authorizing the Division of Water to enter into public improvement contracts to rehabilitate automated control systems at CWD treatment plants and secondary facilities, and in the distribution system.**

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**Background/Purpose:**

The Division of Water (CWD) has invested heavily in state-of-the-art automated instrumentation and controls at all of its treatment plants, secondary facilities, and in the distribution system. Each treatment plant monitors and / or controls 20,000 individual points. Some of the instrumentation and control equipment installed during the Plant Enhancement Program is nearing the end of its life and are no longer supported by manufacturers. The need to adapt to changing lake conditions and new regulations also warrants updates, rehabilitation and retooling of our instrumentation and control systems.

**Scope of Work/Commodities/Services:**

Many water systems, including CWD, employ a plant control philosophy known as distributed control. Each individual plant process is controlled by its own local hardware and computers, which in turn communicate back to a centralized control system. Each local system can continue to function autonomously and control its process in case the central control system is unavailable. Instrumentation and control systems have several elements, including field instruments and devices; local control units (computers), such as programmable logic controllers and remote terminal units; and centralized controlling computers and work stations with control software and control equipment. Rehabilitation and upgrade of our instrumentation and control systems will require replacement or upgraded hardware, software and system integration components.

**Justification/Urgency:**

CWD's control systems are critical to our mission of providing high quality drinking water while meeting all regulations. These systems allow CWD to safely operate all of its water treatment plants, secondary facilities, and the distribution system.

**Anticipated Costs and funding source:**

The anticipated cost of this work is \$3,000,000.

Fund 52, SF 001, and/or from the fund or sub-fund to which are credited the proceeds of current and future bonds, if issued for this purpose.

**Schedule or Term of Contract:**

Legislation will lead to a Public Improvement contract(s) with an estimated duration of three years to complete the work.

**Current Contract(s):**

<b>Vendor Information</b>	<b>Services/Work performed</b>	<b>Contract Info</b>	<b>CSB Participation Goal XX%</b>
<b>N/A</b>			

**Previous Contract(s):**

<b>Vendor Information</b>	<b>Contract Info</b>	<b>CSB Participation Goal XX% (OEO Actual %s)</b>
<b>N/A</b>		