

CITY OF YUBA CITY  
STAFF REPORT

**Date:** October 18, 2022  
**To:** Honorable Mayor & Members of the City Council;  
**From:** Public Works Department  
**Presentation By:** Ben Moody, Public Works & Development Services Director

---

**Summary**

**Subject:** Water Treatment Plant West Flow Meter (Plans & Specifications)  
**Recommendation:** Adopt a Resolution adopting a CEQA Class 1 Categorical Exemption, approving the plans and specifications for the Water Treatment Plant West Flow Meter Project (22-13) and authorizing advertisement for bids on the project  
**Fiscal Impact:** Engineer's Estimate: \$250,000 – Account No. (1227) Recurring WTP & Water Storage Improvements

---

**Purpose:**

To maintain the City's Water Treatment Plant (WTP) operational effectiveness through proactive rehabilitation and major maintenance.

**Council's Strategic Goal:**

This project addresses City Council's Strategic Goal of improving the City's Infrastructure.

**Background:**

The initial construction of the City's WTP was performed in 1969. At that time, treated water was discharged through a single 30-inch diameter pipeline towards Clark Avenue to enter the City's distribution system. To measure the amount of treated water delivered to the City's distribution system, a Dall tube flow meter was installed on this pipeline below ground in a metering vault.

In 2000, the City installed a second pipeline exiting the WTP towards the east on Northgate Drive to enter the City's distribution system on Live Oak Boulevard. To measure the amount of treated water delivered through this pipeline, a Badger M2000 Electromagnetic Flow Meter was installed in above ground piping. This electromagnetic flow meter is referred to as the East flow meter and the original Dall tube flow meter is now referred to as the West flow meter.

The West flow meter is currently a modified Venturi tube consisting of two sections, a short straight inlet followed by an abrupt decrease in diameter. Flow through this meter experiences a pressure differential that is constantly measured via high/low pressure transmitters. The transmitters produce a digital readout of the flow rate that can be read by WTP staff. After 53 years, these transmitters have become increasingly unreliable and problematic. Additionally, the West flow meter is fully contained within the

host pipe and cannot be isolated. Without the ability to isolate the existing meter, and because the meter is below ground in a vault, it is extremely difficult for staff to perform routine maintenance on it.

By routing the west pipeline above ground and installing a new Badger M2000 Electromagnetic Flow Meter, WTP staff will be able to maintain a consistent meter inventory, piping, and fittings that allow for efficient maintenance and integration into the WTP's flow monitoring and reporting requirements.

**Analysis:**

Public Works has prepared the project plans, specifications, and cost estimate for the Water Treatment Plant West Flow Meter Project. With Council's approval of the plans and specifications and authorization to advertise for bids, and upon approval of permits, staff proposes the following schedule:

Advertise for bid:	October 2022
Open bids:	November 2022
Award contract:	December 2022
Start of construction:	January 2022
Complete construction:	January 2022

The plans and specifications for the project are on file in the Public Works Department at City Hall and at [www.yubacity.net/publicworksplans](http://www.yubacity.net/publicworksplans) for review. The City's Public Works Department will perform construction management and inspection.

**Fiscal Impact:**

The estimated total project cost is approximately \$250,000. This estimate includes 15% contingency. Account No. 1227 (Recurring WTP & Water Storage Improvements) has sufficient funding programmed. Detailed fiscal impacts will be presented to Council at the time of award based on actual bid amounts.

**Environmental:**

Staff has performed a preliminary environmental assessment of this project and has determined that it falls within the Class 1 Categorical Exemption set forth in CEQA Guidelines Section 15301, as the installation of above ground pipeline and Badger M2000 Electromagnetic Flow Meter within existing City facilities is defined as a repair, maintenance, or minor alteration of existing public facilities, involving negligible or no expansion. Further, none of the exceptions to Categorical Exemptions set forth in CEQA Guidelines 15300.2 apply to this project.

**Alternatives:**

1. Do not approve the plans and specifications and delay the project.
2. Modify the proposed plans and specifications.

**Recommendation:**

Adopt a Resolution adopting a CEQA Class 1 Categorical Exemption, approving the plans and specifications for the Water Treatment Plant West Flow Meter Project (22-13) and authorizing advertisement for bids on the project.

**Attachments:**

1. Resolution - Water Treatment Plant West Flow Meter (Plans & Specifications)

Prepared By:

Nick Menezes  
Assistant Engineer

Submitted By:

Diana Langley  
City Manager

# ATTACHMENT 1

**RESOLUTION NO. \_\_\_\_\_**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF YUBA CITY  
APPROVING THE PLANS AND SPECIFICATIONS FOR THE WATER  
TREATMENT PLANT WEST FLOW METER PROJECT (22-13) AND  
AUTHORIZING ADVERTISEMENT FOR BIDS ON THE PROJECT**

WHEREAS, the Public Works Department intends to install above ground piping and a new Badger M2000 Electromagnetic Flow Meter at the Water Treatment Plant; and,

WHEREAS, the Public Works Department intends to solicit bids for construction of the Water Treatment Plant West Flow Meter Project (22-13) (Project).

NOW, THEREFORE, be it resolved and ordered by the City Council of the City of Yuba City as follows:

1. Staff has performed a preliminary environmental assessment of this project and has determined that it falls within the Class 1 Categorical Exemption set forth in CEQA Guidelines Section 15301, as the installation of above ground pipeline and Badger M2000 Electromagnetic Flow Meter within existing City facilities is defined as a repair, maintenance, or minor alteration of existing public facilities, involving negligible or no expansion. Further, none of the exceptions to Categorical Exemptions set forth in CEQA Guidelines 15300.2 apply to this project. As such the City adopts a Categorical Exemption per CEQA Guidelines section 15301 for this project.
2. The plans and specifications for the Project are approved.
3. The Public Works Department is hereby authorized and directed to advertise for bids for the Project.

The foregoing Resolution was duly and regularly introduced, passed, and adopted by the City Council of the City of Yuba City at a regular meeting thereof held on the 18<sup>th</sup> day of October, 2022.

AYES:

NOES:

ABSENT:

---

Dave Shaw, Mayor

ATTEST:

---

Ciara Wakefield, Deputy City Clerk

APPROVED AS TO FORM  
COUNSEL FOR YUBA CITY:

---

Shannon Chaffin, City Attorney  
Aleshire & Wynder, LLP