



# CITY OF PETALUMA

POST OFFICE BOX 61  
PETALUMA, CA 94953-0061

## ADDENDUM NO. 5

### Ellis Creek Water Recycling Facility Tertiary Filtration Expansion UV Disinfection Equipment Modifications Project City Project Number C66401416

November 23, 2022

Teresa Barrett  
Mayor

Brian Barnacle  
D'Lynda Fischer  
Mike Healy  
Dave King  
Kevin McDonnell  
Dennis Pocekay  
Councilmembers

This Addendum No. 5 modifies the Bidding Documents for the Ellis Creek Water Recycling Facility Tertiary Filtration Expansion – **UV Disinfection Modifications Project**, C66401416. This Addendum shall become part of the Contract and all provisions of the Contract shall apply thereto. Bidders shall acknowledge all Addendums in the Bid Schedule.

### NOTICE INVITING BID CHANGE

Refer to page 1, item 2 of the Notice of Inviting Bids and Addendum number 2. The Bids will be ~~publicly~~ opened and ~~read at 2:00 PM (enter time) on Thursday October 27~~ **read at 2:00 PM (enter time) on Thursday, December 1, 2022** at the ~~above-mentioned~~ office of the CITY. The CITY reserves the right to postpone the date and time for opening of Bids at any time prior to the aforesaid date and time.

#### Public Works & Utilities

City Engineer  
11 English Street  
Petaluma, CA 94952  
Phone (707) 778-4303

#### Environmental Services

Ellis Creek Water  
Recycling Facility  
3890 Cypress Drive  
Petaluma, CA 94954  
Phone: (707) 776-3777  
Fax: (707) 656-4067

#### Parks & Facility Maintenance

840 Hopper St. Ext.  
Petaluma, CA 94952  
Phone (707) 778-4303  
Fax (707) 206-6065

#### Transit Division

555 N. McDowell Blvd.  
Petaluma, CA 94954  
Phone (707) 778-4421

#### Utilities & Field Operations

202 N. McDowell Blvd.  
Petaluma, CA 94954  
Phone (707) 778-4546  
Fax (707) 206-6034

E-Mail: [publicworks@cityofpetaluma.org](mailto:publicworks@cityofpetaluma.org)

The following paragraphs of the “Notice Inviting Bids” will be modified as described.

- 1. RECEIPT OF BIDS:** Bids for this project will be submitted by email before 2:00 PM on **Thursday, December 1, 2022**. The emailed bid will include all of the completed documents found in the BID FORMS section of the Contract Documents. The bids will be emailed to: [CITYCLERK@cityofpetaluma.org](mailto:CITYCLERK@cityofpetaluma.org). The email subject line will be “Ellis Creek Water Recycling Facility Tertiary Filtration Expansion – UV Disinfection Equipment Modifications Project, C66401416”. The response email from the City Clerk will indicate the time stamp of the bid receipt.
- 2. Original copies of the sealed bids** will be sent by standard United States Postal Service (USPS) mail services and received by the mail clerk at 11 English Street, Petaluma CA 94952. The Sealed Bids will be postmarked at USPS not later than the date of **Thursday, December 1, 2022**, may not be considered. The sealed bids sent via USPS will include all of the original signed and sealed documents included in the Bid Form section of the Contract Documents. This packet will be clearly marked “Ellis Creek Water Recycling Facility Tertiary Filtration Expansion – UV Disinfection Modifications Project, C66401416.

**OPENING OF BIDS:** The emailed bids will be opened by the Project Manager and the City Clerk. The bids will be documented on the Bid Result template with the name of the bidding contractor and ranked by the Base Bid dollar amount. The Bid results will be posted on the City’s webpage at <https://cityofpetaluma.org/bid-opportunities-2/>

## **CORRECTION OF PROJECT SPECIFICATIONS AND DRAWINGS**

Please see updates to the project specifications and drawings below:

1. Section 01140, Part 1.10, B, 3, d, 3). Replace the second sentence with the following:  
“Isolation shall include diversion of the effluent flows to the Process Drain system using the valves in the tertiary flow meter pit for daytime testing.”

### **QUESTIONS AND ANSWERS**

***Question: Can the Construction Period be extended to comply with the suggested work sequence and testing requirements.***

Response: See the attached UV Installation and Performance testing Sequence Based on Section 01140. Note that bioassay testing will be completed after substantial completion.

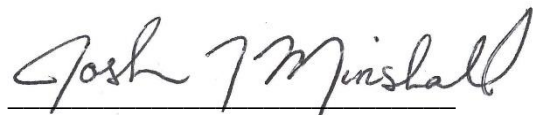
***Question: The following pages are missing: 00820-20, 00820-22 - 00820-24, 00820-26, 00820-28, and 00820-30 can you please advise?***

Response: The referenced pages were blanks that were not present in the published version:

- Page 820-20 is missing; it was a blanks page before Attachment A
- Page 820-22 is missing; it was a blanks page after Attachment A cover sheet, before the wage determinations, that appears to have been deleted.
- Page 820-24 is missing; it was a blanks page before Attachment B, that appears to have been deleted.
- Page 820-26 is missing; it was a blanks page after Attachment B cover sheet, before the DB Certificate, that appears to have been deleted.
- Page 820-28 is missing; it was a blanks page before Attachment C cover sheet, that appears to have been deleted.
- Page 820-302 is missing; it was a blanks page after Attachment C before the DBE Guidance, that appears to have been deleted.

**Summary of Changes:** The project bid opening will be postponed until **Thursday, December 1, 2022.** Some project specifications and drawings have been updated per above. Some project questions have been answered above. All other items of the bid documents shall remain unchanged.

City of Petaluma,



Josh Minshall, P.E.  
Senior Civil Engineer  
Public Works & Utilities Department

**A signed copy of this Addendum and the attached acknowledgement form shall be attached to the bid proposal. Failure to do so may cause rejection of your bid as being non-responsive.**

**ADDENDUM NO. 5**

**Ellis Creek Water Recycling Facility Tertiary Filtration Expansion  
UV Disinfection Equipment Modifications Project  
City Project Number C66401416**

**November 23, 2022**

**ACKNOWLEDGEMENT**

Receipt of Addendum No. 5 is hereby acknowledged by \_\_\_\_\_  
(Contractor's Name)

on the \_\_\_\_\_ day of \_\_\_\_\_, 2022.

By: \_\_\_\_\_

Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Company

Replace with  
"Isolation shall  
include diversion of  
the effluent flows to  
the Process Drain  
system using the  
valves in the tertiary  
flow meter pit for  
daytime testing."

- d. Suggested Work Sequence:
  - 1) Install new UV modules and associated wireways, panels and instrumentation in UV Channel No. 3.
  - 2) Install new motorized actuator and associated wiring on existing slide gate in UV Channel No. 3.
  - 3) Complete UV Channel No. 3 testing including hydraulic and alarm, and then initial performance testing prior to any work on Channel Nos. 1 and 2. Contractor shall be responsible for isolation of Channel No. 3 so no effluent is discharged to the recycled water system. Isolation shall include provision of effluent bulkhead and bypass pumping system (up to 2.6 mgd) for daytime testing of the system. Once testing is completed it may be put into service at 100% power while remaining channels are modified.
  - 4) Install new UV modules and associated wireways, panels, instrumentation and all modifications in UV Channel Nos. 1 and 2 including:
    - a) Shutdown, isolate, and drain the existing UV Channel No. 1.
    - b) Shutdown, isolate, and drain the existing UV Channel No. 2.
    - c) Coordinate and assist with performance testing of UV Channel Nos. 1 and 2 per the testing requirements of the specifications.
- e. Process, Power, and Control Connections and Shutdown Constraints:
  - 1) UV Channel No. 3 must be operational prior to taking UV Channel Nos. 1 and 2 out of service.
  - 2) Perform 8-hour maximum shutdown for connection of new MCC sections and a second 8-hour shutdown for completion of the MCC modifications.
  - 3) Perform 8-hour maximum shutdown for connection of new UV transformer and PDC to 09-MCC-A.
  - 4) Time between MCC-9 shutdowns shall be three days minimum.
4. UV Process Area Performance and Bioassay Testing:
  - a. Performance testing is required for the system prior to completion by the contractor, as specified in Section 11289 - Ultraviolet Disinfection System. Performance testing shall be conducted in two steps: Channel No. 3, then Channel Nos. 1, and 2. Following the Performance testing, the installation contractor will complete any punch list items and reach substantial completion.
  - b. As a Division of Drinking Water (DDW) regulatory requirement, the Owner is required to perform and get approval for a Checkpoint Bioassay Test on the newly installed UV modules and channels immediately following the installation of designated channels. This testing shall be completed by a third-party company hired by the Owner and is not included in this contract. Contactor shall coordinate with the third-party testing firm (Carollo Engineers, Inc.) to accommodate all required Bioassay Protocol, including testing and sampling. Typically, Bioassay Testing requires up to 5 days of in-field testing and sampling. The Contractor will be available to trouble shoot and support the Owner during the Bioassay testing. Once the testing has been completed the Owner can accept the system and issue Final Completion.
  - c. Bioassay testing shall take place between November 1, 2023 and January 1, 2024, to limit the potential for disruption of recycled water delivered during the RW On-Season.

## **Addendum No. 5 Attachment**

### **UV Installation and Performance Testing Sequence Based on Section 01140**

1. Channel 3
  - a. Install new UV modules and associated wireways, panels and instrumentation.
  - b. Install new motorized actuator and associated wiring on existing slide gate.
  - c. Isolate channel so no effluent can be discharged to the recycled water system.
  - d. Complete performance testing per Section 11289, Parts 3.05-3.07. During day-time testing, effluent shall be diverted to Process Drain and not sent to the Recycled Water Storage Basin using valves in the tertiary flow meter vault.
  - e. Channel #3 may be put into service at 100% power once performance testing is completed.
  - f. Contractor may shift focus to Channels 1 and 2 once performance testing is Channel 3 is completed.
2. Channels 1 and 2
  - a. Shutdown, isolate and drain channels.
  - b. Install new UV modules and associated wireways, panels and instrumentation.
  - c. Isolate channels so no effluent can be discharged to the recycled water system.
  - d. Complete performance testing per Section 11289, Parts 3.05-3.07. During day-time testing, effluent shall be diverted to Process Drain and not sent to the Recycled Water Storage Basin using valves in the tertiary flow meter vault.
  - e. Channels #1 & 2 may be put into service at 100% power once performance testing is completed.
  - f. Following performance testing, the installation contractor will complete any remaining punch list items and reach Substantial Completion.
3. Bioassay Testing
  - a. Testing will be completed after Substantial Completion by City and third-party testing firm.
  - b. Contractor shall coordinate with the City and third-party testing firm to accommodate all required Bioassay protocol, including testing and sampling. Typically, bioassay testing requires up to 5 days of in-field testing and sampling.
  - c. Contractor shall be available to troubleshoot and support the Owner during Bioassay testing.
  - d. Once the Bioassay testing has been completed, the Owner can accept the system and issue Final completion.