

CITY OF SANTA ROSA
BOARD OF PUBLIC UTILITIES

TO: BOARD OF PUBLIC UTILITIES
FROM: MIKE PRINZ, DEPUTY DIRECTOR, REGIONAL WATER REUSE
OPERATIONS, SANTA ROSA WATER
SUBJECT: PROJECT WORK ORDER AMENDMENT NO. 6 APPROVAL –
ENGINEERING SERVICES DURING CONSTRUCTION AND
COMMISSIONING SUPPORT FOR CONSTRUCTION OF THE
LAGUNA TREATMENT PLANT DISINFECTION IMPROVEMENTS
PROJECT WITH CAROLLO ENGINEERS

AGENDA ACTION: MOTION

RECOMMENDATION

It is recommended by Santa Rosa Water and the Transportation and Public Works Department that the Board of Public Utilities, by motion, approve Amendment No. 6 to Project Work Order No. A010014-2011-09 under the Master Professional Services Agreement with Carollo Engineers, Inc. of Walnut Creek to provide additional Engineering Services During Construction and Commissioning support for the Laguna Treatment Plant Disinfection Improvements Project in the amount of \$557,000 for a total contract amount not to exceed \$9,012,375.

EXECUTIVE SUMMARY

This proposed action will approve Project Work Order (PWO) Amendment No. 6 in the amount of \$557,000 to PWO No. A010014-2011-09 under the Master Professional Services Agreement with Carollo Engineers, Inc. of Walnut Creek to provide additional Engineering Services During Construction (ESDC) and Commissioning support during construction of the Laguna Treatment Plant Disinfection Improvements Project (Project).

Due to a longer construction duration than was contemplated when Carollo's amended ESDC scope was developed for PWO Amendment 2 (A010014-2011-09B as amended in A010014-2011-09E), in addition to a greater number of submittals, design clarifications, and requests for information during construction than was estimated in the previous amendment, the City needs to amend the existing PWO to increase the scope of ESDC in order to have Carollo continue supporting construction of the Project as the Engineer of Record.

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Additional services are also needed for unanticipated Commissioning support related to Division of Drinking Water (DDW) required testing requirements. In addition, additional services are needed for added Operation and Maintenance (O&M) staff training based on the complexity and size of the new facilities, and the number of new staff at the Laguna Treatment Plant (LTP) facilities.

BACKGROUND

Larger and/or more complex construction projects normally require support from the Engineer of Record (Design Engineer) due to requirements, materials, and equipment described in construction documents that are highly specific to the Project and/or are described in the documents with performance attributes. Due to the size and complexity of the Project, Carollo, as the Engineer of Record, was retained by the City to support the construction phase of the Project by providing Engineering Services During Construction (ESDC).

ESDC normally includes a range of services, most notably:

1. Submittal review to ensure materials and equipment to be supplied by the contractor will conform to performance attributes and design requirements specified in the contract documents,
2. Responses to Requests for Information for a wide range of potential topics related to the construction effort, and
3. Development and issuance of design clarifications where unforeseen conditions or revisions require additional information.

Note that ESDC do not fulfil the need for Construction Management (CM) of a construction project; ESDC are utilized in conjunction with CM services, which are typically provided by an independent party. In the case of the Project, CM services are provided by Psomas under a separate contract.

Carollo's original scope of work included time and budget to fulfill Commissioning requirements for the Project.

PRIOR BOARD OF PUBLIC UTILITIES REVIEW

Note: Due to the extensive nature and lengthy history of the Project, this section of the staff report includes only those items previously considered by the Board that are directly related to services rendered by Carollo Engineers. A more extensive summary of other items related to the Project is presented in the staff report for the award of the construction contract on May 5, 2022, which is also mentioned below.

On January 7, 2016, the Board approved a Project Work Order No. A010014-2011-09 under the Master Professional Services Agreement with Carollo Engineers, Inc., to

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provide engineering services for the Project.

On August 15, 2019, the Board approved Project Work Order Amendment No. 1 to Project Work Order No. A010014-2011-09 under the Master Professional Services Agreement with Carollo Engineers, Inc., to provide additional professional engineering services for the Project.

On November 19, 2020, the Board approved Amendment No. 2 to Project Work Order No. A010014-2011-09 with Carollo Engineers to provide Engineering Services During Construction for the Project.

On September 16, 2021, the Board approved Amendment No. 3 to Project Work Order No. A010014-2011-09 with Carollo Engineers for additional design services and supplier coordination for the Project.

On May 5, 2022, the Board awarded construction contract C00284 to Shimmick Construction Company, Inc. (SCCI) in an amount of \$68,109,000.

On September 5, 2024, the Board approved Amendment No. 5 to Project Work Order No. A010014-2011-09 with Carollo Engineers for additional Engineering Services During Construction and regulatory compliance support for the Project.

ANALYSIS

The Notice to Proceed for the construction of the Project was issued to SCCL on June 20, 2022 and the Final Completion date is currently projected to occur in the second quarter of 2026.

Carollo's original ESDC PWO Amendment Scope was developed in 2020, well in advance of the bidding of the project, which occurred in 2022. The duration of the construction contract in 2020 was anticipated to be 30 months, however this duration was extended to 36 months just prior to bidding the construction contract. The current construction has continued to extend past the previous estimated duration by an additional 4 months. This difference in construction duration, as well as additional anticipated amount of project closeout time has impacted Carollo's anticipated costs for project management and site visits.

Originally anticipated quantities of Submittal Reviews, Requests for Information, and Design Clarifications are proving to have been lower in Carollo's original ESDC scope than actual quantities for this Project are currently forecast to be upon completion of construction. Amended versus currently anticipated final quantities are shown along with anticipated cost increases in Table 1, below.

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Table 1. Previous Amendment versus current forecast, various PWO tasks.

Task	Previous Amended Quantity	Current Forecast	Percent Increase*	Budget Increase
100 ESDC Project Management	40 months	44 months	10	\$20,000
200 Progress Meetings and Site Visits	40 months	44 months	10	\$95,000
300 Submittal Review	560 submittals	760 submittals	35	\$129,000
400 RFI Review	500 RFIs	600 RFIs	20	\$25,000
500 Design Clarifications	50 DCs	50 DCs	2**	\$5,000
700 Start-Up Assistance	\$40,990	\$145,000	250	\$105,000
1000 Discipline Engineer Review	\$95,505	\$140,505	45	\$45,000
10 Commissioning	\$173,918	\$281,918	60	\$108,000
11 O&M Training	\$98,548	\$123,548	25	\$25,000
TOTAL				\$557,0009

**Not proportionate in some cases; i.e. some individual review efforts by Carollo consumed less time than initially assumed, however forecasted quantities are larger.*

***Includes unanticipated change order review.*

Given Carollo’s extensive role on the Project as the Engineer of Record and the fact that additional costs were not previously foreseeable by Carollo, staff consider the proposed amendment as fair and in the best interest of the City.

City of Santa Rosa Council Policy 600-01, Selection of Professional Services and City Code Section 3-08.110, Award Authority, indicates that PWO Amendment. A010014-2011-09E requires approval by the Board of Public Utilities.

FISCAL IMPACT

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The existing PWO with Carollo for the Project, including previously approved amendments, is \$8,455,375. The proposed amendment will increase the total contract value to \$9,012,375. See table 2 below for a contract summary.

Table 2. Carollo Contract Summary, LTP Disinfection Improvements Project

PWO Number Approval Date	Approving Authority	Purpose/Need	Amount
A010014-2011-09 01/07/2016	BPU	Initial design	\$2,803,599
A010014-2011-09A 08/15/2019	BPU	Unanticipated design changes and Tubbs fire delay	\$1,584,655
A010014-2011-09B 11/19/2020	BPU	Original ESDC scope	\$2,131,132
A010014-2011-09C 09/16/2021	BPU	Additional design changes, equipment supplier coordination, and delays	\$750,000
A010014-2011-09D 03/08/2022	Director	Title 22 Engineering Report Additions	\$15,000
A010014-2011-09E	BPU	Additional ESDC Scope and Regulatory Support	\$1,170,989
A010014-2011-09F (proposed)	BPU	Additional ESDC Scope and Commissioning/Training Support	\$557,000
TOTAL			\$9,012,375

This amendment will be funded with currently existing CIP appropriations. There are no further budgetary impacts.

ENVIRONMENTAL IMPACT

On November 6, 2003, the Board of Public Utilities certified the Final Environmental Impact Report (EIR) for the Incremental Recycled Water Program (IRWP). The Laguna Treatment Plant Disinfection Improvements Project was subsequently evaluated in an Addendum to the IRWP Program EIR approved in November 2020 pursuant to CEQA Guidelines Sections 15162 and 15164, and the Board adopted a Mitigation Monitoring Program (MMRP) and approved the Project at that time.

The proposed action consists solely of an amendment to a project work order for continued engineering services during construction and commissioning for the previously approved Project and does not alter the project scope or result in any new or substantially more severe environmental impacts. Therefore, no further environmental review is required under CEQA.

ATTACHMENTS

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- Attachment 1 – PWO Amendment Scope and Fee

PRESENTER

Mike Prinz, Deputy Director Regional Water Reuse Operations