

CITY OF SANTA ROSA  
BOARD OF PUBLIC UTILITIES

TO: BOARD OF PUBLIC UTILITIES  
FROM: TETYANA MOKVYTS, WATER REUSE ENGINEER,  
WATER DEPARTMENT  
SUBJECT: PROFESSIONAL SERVICES AGREEMENT AMENDMENT NO. 1 -  
JDH CORROSION CONSULTANTS - LAGUNA TREATMENT  
PLANT AND GEYSERS PIPELINE CATHODIC PROTECTION  
ALTERNATIVES EVALUATION AND ENGINEERING DESIGN  
SERVICES

AGENDA ACTION: MOTION

---

RECOMMENDATION

It is recommended by Santa Rosa Water that the Board of Public Utilities, by motion, approve a Professional Services Agreement (PSA) Amendment No. 1 with JDH Corrosion Consultants to provide additional professional services for the Laguna Treatment Plant (LTP) and Geysers Pipeline Cathodic Protection Alternatives Evaluation and Engineering Design Services of in the amount of \$65,280, for a total contract amount not to exceed \$163,934.00.

---

EXECUTIVE SUMMARY

This proposed action will approve Amendment No. 1 to PSA No. F002827 with JDH Corrosion Consultants of Concord, CA, in the amount of \$65,280, to provide additional Professional Engineering Services for the (LTP) and Geysers Pipeline Cathodic Protection Alternatives Evaluation and Engineering Design Services.

BACKGROUND

This project is composed of two components, evaluating and replacing the Cathodic Protection (CP) system at LTP and investigating and improving the CP system for the Geysers Recharge system.

LTP's underground metallic pipes are protected by 3 impressed current cathodic protection systems. Two original rectifiers (one in the lower gallery of the primary treatment structure and the other in the interior wall of the Blower Building) are non-functional due to a lack of AC power and potential rectifier overheating issues. The third rectifier is functional but not sufficient to meet NACE criteria for pipe-to-soil potential criteria. The existing rectifiers cannot provide sufficient current corrosion protection of the buried pipelines. The test stations for bonding and pipeline monitoring are not effective.

PROFESSIONAL SERVICES AGREEMENT AMENDMENT NO. 1 - JDH CORROSION  
CONSULTANTS - LAGUNA TREATMENT PLANT AND GEYSERS PIPELINE  
CATHODIC PROTECTION ALTERNATIVES EVALUATION AND ENGINEERING  
DESIGN SERVICES  
Page 2 of 4

The cathodic protection systems themselves, i.e. the anodes and cables, appear to be approximately 50 years old, have exceeded their useful life, and need replacement.

In 2003, the Santa Rosa Geysers Recharge Project (GRP) began operating. Since 2003, GRP has delivered approximately 12.6 million gallons per day of tertiary treated wastewater to replenish the Geysers' geothermal reservoir. This recycled water system is crucial to managing treated wastewater disposal, meeting waste discharge regulatory requirements, and meeting the demand for Calpine's Geysers Geothermal Recharge Project.

In 2022, Corrpro/Aegion performed an annual CP system survey of the Geysers Recharge Pipeline and the Geysers Recharge Terminal Reservoir Reclaimed Water Storage Tank. The 2022 CP survey included rectifier assessment, measurement of output parameters, and pipe-to-soil potentials obtained at accessible test locations on the surveyed pipeline. Based on the findings, it was recommended to restore adequate levels of cathodic protection by installing a replacement anode groundbed for Rectifier R-1, repair/replace the voltage panel meter for the rectifier at Terminal Reservoir, and replace the permanent reference electrodes for continued service.

PRIOR BOARD OF PUBLIC UTILITIES REVIEW

None.

ANALYSIS

The Request for Proposals (RFP) for the LTP Cathodic Protection Improvements Project Alternatives Evaluation and Engineering Design Services was advertised on January 2, 2024, with a due date of February 2, 2024. A total of five (5) proposals were received.

A review panel of four (4) City staff consisting of (list the positions that were part of the review panel) evaluated and scored the proposals in accordance with Government Code 4526, which requires public agencies enter into contracts for engineering services based on demonstrated competence and professional qualifications and at fair and reasonable price to the public agencies.

The proposals were evaluated and scored based on the following criteria:

- Responsiveness to Requirements, Terms, and Conditions of the RFP
- Qualifications of the Project Team
- Availability and Ability to Perform the Scope of Services in a Timely Manner
- Understanding of the Work to be Completed
- Previous Experience and Demonstrated Technical Ability

PROFESSIONAL SERVICES AGREEMENT AMENDMENT NO. 1 - JDH CORROSION  
CONSULTANTS - LAGUNA TREATMENT PLANT AND GEYSERS PIPELINE  
CATHODIC PROTECTION ALTERNATIVES EVALUATION AND ENGINEERING  
DESIGN SERVICES  
Page 3 of 4

- Reference Response and Demonstrated Performance

JDH Corrosion Consultants was selected as the most qualified consultant for this project based on a high level of understanding of the work plan, and experience with similar kinds of work. JDH Corrosion Consultants fee estimate was reviewed and determined to be reasonable and fair for the proposed scope of work.

Professional Service Agreement No. F002827 with JDH Corrosion Consultants in the amount of \$98,654 was signed and executed on June 5, 2024.

City staff requested additional services from JDH Corrosion Consultants to evaluate and design improvements to restore the CP system of the Geysers pipeline.

A proposal to include Geysers Pipeline Cathodic Protection Alternatives Evaluation and Engineering Design Services in the amount of \$65,280, was received from JDH Corrosion Consultants on December 5, 2024.

Since the scope of work and the fees are aligned with City staff expectations, it is in the best interest of the City to approve an amendment to PSA No. F002827 with JDH Corrosion Consultants to perform this additional work.

#### FISCAL IMPACT

Approval of this Amendment has no additional impact on the budget. Funding for this project was appropriated with the 2024/2025 Capital Improvement Program budget.

#### ENVIRONMENTAL IMPACT

Pursuant to CEQA Guidelines Section 15378, the proposed action is not a “project” subject to the California Environmental Quality Act (CEQA) because it does not have a potential for resulting in either a direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment. In the alternative, the proposed action is exempt from CEQA pursuant to CEQA Guidelines Section 15061(b)(3) because it can be seen with certainty that there is no possibility that the project may have a significant effect on the environment.

#### BOARD/COMMISSION/COMMITTEE REVIEW AND RECOMMENDATIONS

N/A

PROFESSIONAL SERVICES AGREEMENT AMENDMENT NO. 1 - JDH CORROSION  
CONSULTANTS - LAGUNA TREATMENT PLANT AND GEYSERS PIPELINE  
CATHODIC PROTECTION ALTERNATIVES EVALUATION AND ENGINEERING  
DESIGN SERVICES  
Page 4 of 4

ATTACHMENTS

- Attachment 1 – Professional Services Agreement Amendment No.1

PRESENTER

Tetyana Mokvyts, Water Reuse Engineer