

IMPACT STATEMENT

Legislation title: Authorize contract with Brown and Caldwell, Inc. for engineering services for the Columbia Blvd. Wastewater Treatment Plant Waste Gas Burner Replacement, Project E10649, for the amount of \$293,939 (Ordinance)

Contact name: Scott T. Gibson, PE

Contact phone: 503-823-7615

Presenter name: Scott T. Gibson, PE

Purpose of proposed legislation and background information:

The Columbia Boulevard Wastewater Treatment Plant (CBWTP) Waste Gas Burner (WGB) system, originally constructed in 1977 and last upgraded in 1983, has provided reliable greenhouse gas destruction of biogas produced at the CBWTP. The project was identified as a need by the CBWTP Plant Staff in 2012, and approved as a Rehabilitation, Repair & Modification (RR&M) Project in 2014. The purpose of this project is to improve the safety and the reliability of the flaring system by replacing the existing waste gas burners with new burners and controls.

The WGB system is critical in the process of greenhouse gas destruction and air-emissions permit compliance at CBWTP. The improvement project will replace the existing WGB flares with new flares, as well as introduce additional instrumentation throughout the biogas piping system. The new flares will increase the safety and reliability of the WGB system by removing corroded and damaged equipment, adhering to current manufacturer recommendations as well as code requirements for flare installation. System reliability will be added with the installation of instrumentation for improved management of the biogas system. The addition of new instrumentation and monitoring equipment will provide Operations staff with accurate and real time data feedback to improve the operations process and reporting, including ensuring accurate accounting of biogas production and demand.

Operations of the gas system will be improved by adhering to current manufacturer recommendations for flare installation and by adding instrumentation for improved management of the biogas system.

Through this contract, Brown and Caldwell, Inc. (B&C) will provide preliminary design, final design, bidding and construction support, and testing, training and startup assistance.

Four (4) consulting firms proposed for this PTE contract. B&C was selected by a consultant selection committee and the selection process was performed in accordance with Chapter 5.68 of the Code of the City of Portland.

Financial and budgetary impacts:

The compensation for this agreement is \$293,939. The level of confidence in this cost estimate is high. The overall project cost estimate is \$1.02 million. The design phase will improve overall project cost estimate confidence as design work is completed. The project is included in the adopted BES CIP budget for FY2017.

The project is consistent with City Policy and requirement for maximum treated water quality.

There are no legal or controversial issues identified at this time.

Community impacts and community involvement:

It is anticipated that there will be minimal to no impact to the community, as this is contract work is primarily engineering services. This project will provide regular updates to the Citizen Advisory Committee (CAC) for CBWTP and receive its feedbacks and inputs for project design.

There are two (2) D/M/W/ESB subconsulting firms included in this contract, and their combined participation is 31.3% of the total contract amount.

Budgetary Impact Worksheet

Does this action change appropriations?

☐ **YES:** Please complete the information below.

☐ **NO:** Skip this section

Fund	Fund Center	Commitment Item	Functional Area	Funded Program	Grant	Sponsored Program	Amount