City of Tacoma

Resolution No.: _____

Meeting Date: _____

Contract and Award Letter
Purchase Resolution —Exhibit "A"

TO: Board of Contracts and Awards
FROM: Michael P. Slevin III, P.E., Director, Environmental Services Director
John Burk, P.E., Division Manager, Science and Engineering
COPY: City Council, City Manager, City Clerk, EIC Coordinator, LEAP Coordinator, Jordan Ennis, P.E., Project Engineer, and Dawn DeJarlais, Finance/Purchasing
SUBJECT: North End Treatment Plant Trickling Filter Project, Architectural and Engineering (A&E) Roster Award, Contract No. CW2254273 – February 21, 2023 City Council
DATE: January 26, 2023

DS MPS

RECOMMENDATION SUMMARY:
The Environmental Services Department recommends a contract be awarded to Brown and Caldwell, Inc., Tacoma, WA, in the amount of $2,247,921, plus applicable taxes, budgeted from the Wastewater Fund 4300, for engineering design services for the North End Treatment Plant Trickling Filter Project.

STRATEGIC POLICY PRIORITY:
- Strengthen and support a safe city with healthy residents.
- Assure outstanding stewardship of the natural and built environment.

Proper design of the new trickling filter has a direct impact on the performance of the North End Treatment Plant (NETP) and a direct impact on the overall water quality of Commencement Bay and the Puget Sound.

BACKGROUND:
Engineering services are required to assist City staff during the design of the NETP Trickling Filter Replacement Project. Mechanical, structural, and electrical design is beyond the expertise of the current in-house engineering staff. The work will include mechanical and electrical field investigations, design development and review, permit assistance, and support during procurement and construction.

ISSUE: The purpose of this project is to construct a new trickling filter which is an essential component of the NETP's wastewater treatment process providing the second stage of contaminant removal allowing the NETP to reliably meet its National Pollutant Discharge Elimination System (NPDES) permit regulations. The filter media in the existing trickling filter is at the end of its service life and in need of replacement. Currently, any replacement of media requires a shutdown of the existing system, which has no redundancy, and therefore places the NETP out of permit compliance. This contract will include the design of a second trickling filter that is approximately 50 feet in height and 60 feet in diameter to provide additional capacity and redundancy in the system in addition to some mechanical equipment upgrades and concrete coatings. This contract also includes the design of upgraded curb ramps, sidewalks, drainage, and street frontage improvements required for this project.

ALTERNATIVES: Alternatives to performing this project are to take no action, which places the City at risk of not meeting NPDES permit regulations, or upgrading the filter media in the existing Trickling Filter. Replacing the existing media was not selected as an option since there is no cost-effective way to provide redundancy of this required treatment system while performing

repairs. Other design alternatives were evaluated, such as hiring a different engineering consultant or opting to design the project internally. This is a complex project that requires expert technical experience, it is in the best interest of the City to retain Brown and Caldwell, Inc., to assist in the design.

COMPETITIVE ANALYSIS:
The City of Tacoma solicited engineering and architectural services to develop the citywide Architectural and Engineering (A&E) Roster. Three consulting firms were selected from the A&E Roster and subsequently evaluated to find the most qualified for this project. This evaluation process resulted in Brown and Caldwell, Inc. as the most qualified.

Respondent	Location	Score
Brown and Caldwell, Inc.	**Tacoma, WA**	**1**
Carollo Engineers, Inc.	Seattle, WA	2
Jacobs Engineering Group, Inc.	Bellevue, WA	3

CONTRACT HISTORY: New Contract

SUSTAINABILITY: Brown and Caldwell, Inc. is committed to providing sustainable solutions as part of their design approach. The proposed trickling filter was selected in accordance with the Environmental Services Wastewater Comprehensive Plan, which includes design criteria that reflects the projected demands of 2040. The performance of the treatment plant has a direct impact on the water quality of Commencement Bay.

EQUITY IN CONTRACTING (EIC) COMPLIANCE: Not applicable.

LOCAL EMPLOYMENT AND APPRENTICESHIP TRAINING PROGRAM (LEAP) COMPLIANCE: Not applicable.

FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4300 ES Wastewater Fund	ENV-04016-08-04	5330100	$2,247,921
TOTAL			**Up to $2,247,921**

REVENUES:

FUND NUMBER & FUND NAME	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4300 ES Wastewater Fund	524700	6310010	$2,247,921
TOTAL			**Up to $2,247,921**

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: Not to exceed $2,247,921

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

IF EXPENSE IS NOT BUDGETED, PLEASE EXPLAIN HOW THEY ARE TO BE COVERED. N/A