

Department of Public Works

Bureau of Engineering
Report No. 1

September 6, 2024
CD No. 11

ADOPTED BY THE BOARD
PUBLIC WORKS OF THE CITY
of Los Angeles California

SEP 06 2024


Executive Officer
Board of Public Works

ISSUE THE TASK FOR SOLICITATION NO. 70 TO BLACK AND VEATCH CORPORATION FROM THE PRE-QUALIFIED ON-CALL CONSULTANTS LIST TO PROVIDE DESIGN AND TECHNICAL SUPPORT SERVICES FOR CAPITAL IMPROVEMENT PROJECT 2483 HYPERION WATER RECLAMATION PLANT PRIMARY BATTERIES BIO-TRICKLING FILTER FACILITY (WORK ORDER NO. SZH12157, CONTRACT NO. C-129641)

RECOMMENDING THE BOARD OF PUBLIC WORKS (BOARD):

AUTHORIZE the City Engineer to issue the task to Black and Veatch Corporation (Black and Veatch), Contract No. C-129641, from the Pre-Qualified On-Call (PQOC) Wastewater and Environmental Engineering Services Consultants List to provide design and technical support services for Capital Improvement Project (CIP) 2483 Hyperion Water Reclamation Plant (HWRP) Primary Batteries Bio-Trickling Filter Facility (Project), as stated in Task Order Solicitation (TOS) No. 70, with a budget authority of \$3,500,000, which includes contingency.

TRANSMITTALS

Copy of TOS No. 70 "Design and Technical Support for CIP 2483 Hyperion Water Reclamation Plant Primary Batteries Bio-Trickling Filter Facility Project" dated January 11, 2024.

DISCUSSION

Background

On June 26, 2017, the Board approved the PQOC list of consultants to provide wastewater and environmental engineering services for the Environmental Engineering Division. The contract with Black and Veatch was executed on July 11, 2017, with an expiration date of July 10, 2022. The contract has been extended for an additional five years until July 11, 2027 (Council File No. 22-0738).

The HWRP processes an average daily wastewater dry weather flow of 270 million gallons. This significant flow generates considerable odors throughout the plant. The HWRP is responsible for capturing, containing, collecting, and treating the foul air generated from treatment processes, adhering to the guidelines set forth by the South Coast Air Quality Management District (SCAQMD). To manage these odors, the HWRP has several odor control facilities located throughout the plant.

The existing odor control system for the HWRP primary batteries collects, conveys, and treats foul air from the headspaces of the Primary Batteries A, B, C, and D, as well as

from the Battery D Sludge Well and the Battery D Scum Pit and Decant Wet Well. The centralized primary scrubber facility is a key component of the system, comprising six multi-stage packed tower chemical scrubber trains, each followed by dual-bed activated carbon towers for final polishing. The existing site with chemical scrubbers and piping is shown in the figure below.



Figure: Existing Chemical Scrubbers at Primary Batteries

The centralized primary scrubber facility chemical scrubbers require the handling of corrosive chemicals, posing safety hazard to HWRP personnel and causing equipment damage and concrete deterioration. This system incurs high operation and maintenance costs, including the expense of chemicals, frequent equipment replacement, and maintenance to repair chemical leaks. In response to these challenges, the CIP 2521 HWRP Emergency Primary Central Scrubber Facility Upgrades was initiated to refurbish the six existing chemical scrubbers to comply with SCAQMD Abatement Order 1212-40, issued on June 20, 2023. This refurbishment was an expedited measure to temporarily meet these compliance conditions and address odor complaints until a more effective permanent solution could be implemented.

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This Project aims to replace the existing chemical scrubber facility with a new bio-trickling filter facility that will comply with current SCAQMD regulations. Bio-trickling filters offer a more sustainable process for reducing foul air emissions from the primary batteries, as they are more efficient in handling high loads and simpler for HWRP personnel to operate and maintain. Implementing a more robust system is crucial to meet SCAQMD standards and ensure that nearby communities are not exposed to noxious gases. The Project is expected to be completed by June 30, 2029, with a total construction budget of \$46,785,000.

TOS Description

The Bureau of Engineering (BOE) relies on consultants to provide specialized expertise and resources to assist with the delivery of wastewater projects. Furthermore, the Clean Water Infrastructure Program is dynamic and thus, the use of consultants allows the BOE to quickly ramp up or down based on the projected workload. The program takes on projects addressing deteriorated and outdated facilities. Repair or replacement of these facilities ensure a safe and reliable wastewater treatment system.

TOS No. 70 is intended to provide detailed design and technical support services during the design, bid and award, construction, and post-construction phases of this Project. (Transmittal) The Consultant is required to provide an analysis of the existing primary batteries foul air capture system, detailed design plans, specifications, engineering calculations, cost estimates, the SCAQMD permit application, and technical support during bid and award, construction, and post-construction for the new facility.

Summary of Selection and Negotiations

This TOS was issued to all 24 consulting firms on the PQOC Wastewater and Environmental Engineering Services Consultants List. Task proposals were received on February 23, 2024 from AECOM Technical Services, Inc., Black and Veatch, Brown and Caldwell, and Stantec Consulting Services, Inc. The proposals were evaluated in accordance with the selection criteria, and Black and Veatch was selected. The negotiated base task amount is \$3,154,263 with \$345,737 of contingency for a requested total budget authority of \$3,500,000.

Black and Veatch demonstrated that they have a thorough understanding of the scope, qualified and experienced team members, and a good understanding of City's procedures and practices.

Documentation supporting the selection of the Consultant as well as a record of the negotiations has been included in the Project file.

Business Inclusion Program (BIP)

This task will be subject to the BIP outreach requirements. The City has set anticipated participation levels of 18 percent Minority Business Enterprise (MBE), 4 percent Women Business Enterprise (WBE), 25 percent Small Business Enterprise (SBE), 8 percent Emerging Business Enterprise (EBE), and 3 percent Disabled Veteran Business Enterprise (DVBE). For this task, the Consultant is pledging an MBE participation level of 10.09 percent, a WBE participation level of 14.89 percent, an SBE participation level of 22.30 percent, an EBE participation level of 9.82 percent, a DVBE participation level of 0.59 percent, and an Other Business Enterprise (OBE) participation level of 0.61 percent.

On this particular task, the following MBE, WBE, SBE, EBE, DVBE, and OBE firms are proposed to be utilized by the Consultant:

Gender/Ethnicity Codes:

AA = African American	HA = Hispanic American
APA = Asian Pacific American	SAA = Subcontinent Asian American
NA = Native American	C = Caucasian
M = Male	F = Female

Subconsultants	Gender/ Ethnicity	MBE/WBE/SBE/ EBE/DVBE/OBE	% of Base Task	Task Amount
C&A Odor Control Solutions	M/APA	OBE	0.61%	\$ 19,350
Calvada Surveying, Inc.	M/HA	MBE/SBE/DVBE	0.59%	\$ 18,640
E2 Consulting Engineers, Inc.	M/APA	MBE	2.68%	\$ 84,473
Integrated Engineering Management	F/C	WBE/SBE/EBE	3.00%	\$ 94,570
Beyaz & Patel, Inc.	M/SAA	MBE/SBE/EBE	6.82%	\$ 215,086
KAL Architects, Inc.	F/APA	WBE/SBE	11.89%	\$ 375,000
Subtotal Subconsultant Participation			25.59%	\$ 807,119
Prime Participation including reimbursable expenses			74.41%	\$2,347,144
Initial Base Task			100.00%	\$3,154,263
Contingency				\$ 345,737
Total Task Budget Authority				\$3,500,000

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The following is a summary of the subconsultant utilization pledged by the Consultant by business enterprise:

Total Subconsultant Participation						
Pledged	MBE	WBE	SBE	EBE	DVBE	OBE
% of Base Task	10.09%	14.89%	22.30%	9.82%	0.59%	0.61%
\$ Amount	\$318,199	\$469,570	\$703,296	\$309,656	\$18,640	\$19,350

Contractor Performance Evaluation

In accordance with Division 10, Chapter 1, Article 13 of the Los Angeles Administrative Code, the appropriate City personnel responsible for the quality control of this personal services contract shall submit Contractor Performance Evaluation Reports to the Bureau of Contract Administration, Special Research & Investigation Section upon completion of the contract.

STATUS OF FUNDING

There is no impact to the General Fund. The total funding for this contract is not-to-exceed \$3,500,000. Funding for consultant services during planning and design is not-to-exceed \$3,000,000. Funding sources for consultant services during planning and design may include, but are not limited to, Fund No. 761, Sewer Capital Fund, Department No. 50, Appropriation Unit No. 50AGC3. Funding for consultant services during construction is not-to-exceed \$500,000. Funding sources for consultant services during construction may include, but are not limited to, Fund No. 761, Sewer Capital Fund, Department No. 50.

Future funds and appropriations are not yet identified, and existing appropriations may change based on available cash balances. Therefore, funds and appropriations will be determined by the Director of the Los Angeles Sanitation & Environment.

The City's liability under this contract shall only be to the extent of the present City appropriation to fund the contract. However, if the City shall appropriate funds for any succeeding years, the City's liability shall be to the extent of such appropriation, subject to the terms and conditions of the contract.

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(EBW RMK AV AM)

Report reviewed by:

BOE (ADM and PAC)

Report prepared by:

Environmental Engineering Division

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Respectfully submitted,



Ted Allen, PE
City Engineer
Bureau of Engineering

Statement as to funds approved by:



Miguel De La Peña, Director
Office of Accounting
Fund Ref. 761/50/50AGC3/FY 24-25 \$862,500
Date: 8/22/2024

EBW/NS/AM/06/2024/0093_EED.gva

Questions regarding this report
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