



City of Arts & Innovation

City Council Memorandum

TO: HONORABLE MAYOR AND CITY COUNCIL DATE: DECEMBER 6, 2022

FROM: PUBLIC UTILITIES DEPARTMENT WARDS: ALL

SUBJECT: SECOND AMENDMENT TO PROFESSIONAL CONSULTANT SERVICES AGREEMENT FOR GRANULAR ACTIVATED CARBON TESTING WITH CARBON ACTIVATED CORPORATION OF COMPTON, CALIFORNIA, FOR A THREE-YEAR TERM THROUGH DECEMBER 31, 2025, IN AN AMOUNT NOT TO EXCEED \$2,652,000

ISSUE:

Consider approving the Second Amendment to Professional Consultant Services Agreement for Granular Activated Carbon Testing with Carbon Activated Corporation of Compton, California, for a three-year term through December 31, 2025, in an amount not to exceed \$2,652,000.

RECOMMENDATIONS:

That the City Council:

1. Approve the Second Amendment to the Professional Consultant Services Agreement for Granular Activated Carbon Testing with Carbon Activated Corporation of Compton, California, for a three-year term through December 31, 2025, in an amount not to exceed \$2,652,000; and
2. Authorize the City Manager, or designee, to execute the Second Amendment to the Professional Consultant Services Agreement, including making minor and non-substantive changes and to sign all documents and instruments necessary to complete the transactions.

BOARD RECOMMENDATION:

On November 14, 2022, the Board of Public Utilities approved the expenditure of \$2,652,000 for RFP No. 2018 for granular activated carbon, for a three-year term in the amount of \$2,652,000; and recommended the City Council approve a Professional Consultant Services Agreement with Carbon Activated Corporation.

BACKGROUND:

On January 11, 2021, the Board of Public Utilities approved two separate professional services agreements with Calgon Carbon Corporation and Carbon Activated Corporation to test the organic contaminant removal performance of two different virgin and regenerated granular-activated bituminous coal-based carbon media products (GAC). Each carbon product was evaluated for its removal efficiency for dibromochloropropane (DBCP), 1,2,3-Trichloropropane (1,2,3-TCP) and per- and polyfluoroalkyl substances (PFAS) for the water entering the Palmyrita Water Treatment Plant (PWTP).

Per the terms of the agreements, two vessels (2) of virgin GAC were loaded at the PWTP by each carbon supplier, and water quality samples were collected. On April 11, 2022, contract extensions were approved to allow testing to continue due to the longer-than-expected life of the carbon media. The contract extensions also allowed for each carbon supplier to test their reactivated GAC media.

DISCUSSION:

The PWTP is permitted by the State Water Resources Control Board Division of Drinking water to treat water using GAC from several Riverside North groundwater basin wells to remove the contaminant DBCP. In addition to removing DBCP, GAC has been identified as one of the leading technologies to remove other constituents such as PFAS and 1,2,3-TCP from drinking water. The table below shows the results of the two different coal-based carbon media to the current coconut shell carbon media in use. Table 1 identifies the GAC product, contaminant, days to breakthrough, and the amount of water treated in acre-feet (AF).

Table 1

GAC	DBCP		1,2,3-TCP		PFOS		PFOA		PFBS		PFHxS		PFHxA		PFHpA	
	Days	AF	Days	AF	Days	AF	Days	AF	Days	AF	Days	AF	Days	AF	Days	AF
Filtrisorb 400 (F400)	292	23	240	20	269	22	253	20	253	20	253	20	234	19	293	20
COL-L 60 (12x40)	393	31	280	24	351	28	280	24	280	24	280	24	280	24	329	24
PSC1240 (Coconut)	256	22	238	20	194	18	194	18	194	18	194	18	295	18	204	18

Carbon Activated supplied the COL-L 60 (12x40), provided the longest period of treatment before contamination breakthrough was realized compared to Calgon's F400 and the current coconut shell based carbon in use. As a result, staff recommends utilizing Carbon Activated's COL-L 60 product at Palmyrita WTP.

The Purchasing Manager concurs that the recommended actions are in compliance with Purchasing Resolution No. 23914 Section 1104 Change Orders, Modification to a Purchase Order shall be only by Change order. Subject to the availability of funds, Change Orders may be utilized for purposes of adding/or deleting quantity of items being procured, (2) modifying unit prices and (5) modifying contract completion time or term of a contract.

STRATEGIC PLAN ALIGNMENT:

This item aligns with **Strategic Priority No. 2 Community Well-Being, Goal 2.3** - Strengthen neighborhood identities and improve community health and the physical environment through amenities and programs that foster an increased sense of community and enhanced feelings of pride and belonging citywide; and **Strategic Priority No. 4 Environmental Stewardship, Goal 4.2** - Sustainably manage local water resources to maximize reliability and advance water reuse

to ensure safe, reliable and affordable water to our community.

The actions align with the five Cross-Cutting Threads as described below:

1. **Community Trust** – Riverside Public Utilities tests the GAC before fully implementing a switch.
2. **Equity** – RPU customers benefit equally by maintaining the water quality.
3. **Fiscal Responsibility** – RPU is analyzing which GAC will remove contaminants for a longer period of time.
4. **Innovation** – RPU is utilizing approved technologies for water treatment.
5. **Sustainability & Resiliency** – production of potable water with minimal water loss form processes.

FISCAL IMPACT:

The total fiscal impact of this agreement is \$2,652,000 over three (3) years. The annual estimated cost is \$884,000, and only actual expenditures for services rendered will be incurred. Sufficient funds are budgeted and available in the Water Fund, Water-Production & Operation, Chemical Supplies account 6200000-426600. Appropriations for future fiscal years will be included in the Department's Budget submissions for those fiscal years to be presented to the City Council for approval.

Prepared by:	David A. Garcia, Utilities Assistant General Manager/Water
Approved by:	Todd M. Corbin, Utilities General Manager
Approved by:	Kris Martinez, Assistant City Manager
Approved as to form:	Phaedra A. Norton, City Attorney

Certifies availability of funds:	Edward Enriquez, Interim Assistant City Manager/Chief Financial Officer/City Treasurer
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Attachments:

1. Second Amendment to Professional Services Agreement with Carbon Activated Corporation
2. Presentation