



Request for City Council Committee Action From the Department of Public Works

Date: January 4, 2006
To: Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee
Referral to: Honorable Barbara Johnson, Chair Ways & Means/Budget Committee

Subject: Amendment #2 to Contract with Black & Veatch for Columbia Heights Membrane Filtration Plant

Recommendation:

Authorize execution of amendment to contract with Black & Veatch increasing the contract by \$210,000 (additional 4%) for additional services, for a total contract price of \$5,358,000. Funds are available within the project budget (Water 7400/ 950/ 9515). City agreement number C-017864.

Previous Directives:

- On February 11, 2005 authorized preparation of Amendment #1 to contract with Black & Veatch increasing the contract by \$648,000, for a total contract price of \$5,148,000 and extending the time period until completion.
- On January 14, 2005, the City Council accepted the bid for a project (O.P. #6364) to construct a Water Treatment Plant Residual Lagoon, to be constructed by Landwehr Construction, Inc.
- On November 21, 2001, the City Council authorized preparation of an agreement with Black & Veatch for engineering and architectural services for design and construction phase services for the Columbia Heights Membrane Filtration Plant for a total sum not to exceed \$4,500,000.

Prepared by: Dale A. Folen, P.E., Professional Engineer, Ext. 4908

Approved by: Klara A. Fabry, P.E., City Engineer, Director of Public Works

Klara A. Fabry, P.E., City Engineer, Director of Public Works

Presenters: Dale A. Folen, P.E., or Shahin Rezania, Interim Director of Water Treatment and Distribution Services, ext. 2418

Financial Impact (Check those that apply)

No financial impact - or - Action is within current department budget.
(If checked, go directly to Background/Supporting Information)

Action requires an appropriation increase to the Capital Budget

Action requires an appropriation increase to the Operating Budget

Action provides increased revenue for appropriation increase

Action requires use of contingency or reserves

Other financial impact (Explain):

Request provided to the Budget Office when provided to the Committee Coordinator

Background/Supporting Information

The Public Works Capital Improvement Plan includes building a new 70 million gallon per day Water Treatment Plant using ultrafiltration membranes as the treatment technology. This new plant, called the Columbia Heights Membrane Filtration Plant (CHMFP) will replace the existing Columbia Heights Filtration Plant, which was mostly constructed in the period from 1913 to 1919. The primary objective of the overall plan is to provide physical removal of pathogenic microorganisms and improve the quality of water delivered to the citizens of Minneapolis.

Current Request

During the construction of the Lagoon 8 project, the subsurface soils conditions prompted the Minnesota Pollution Control Agency (MPCA) to require the installation of a liner on the bottom of the two lagoon cells. Further, while re-use of some old pipelines saved a large amount of construction cost, a small portion of that pipeline was found to need replacement. The first part of the engineering services scope amendment (\$60,000) includes the design, bidding, and construction oversight of a liner system, and the design and oversight of a segment of underground directional drilling to install a new segment of pipeline.

During the construction of Columbia Heights Membrane Filtration Plant (CHMFP), some parts of the project required longer times for construction and more intense engineering oversight. Both the Ultrafiltration Equipment supplier and the General Contractor were delayed in their work, partly due to the overall complexity of the project and the level of interaction required for successful implementation. The second part of the engineering services scope amendment (\$150,000) includes additional time for the engineering consultant to be on-site to observe extended construction activities and assist in the coordination between the equipment supplier and contractor.

C: Shahin Rezania, P.E., Interim Director of Water Treatment and Distribution Services
Contract Management Director