



Memorandum

To: Honorable Mayor and Members of the City Council
Administration and Public Works Committee

From: David Stoneback, Public Works Agency Director
Lara Biggs, Bureau Chief – Capital Planning / City Engineer
Kristin Rehg, Senior Project Manager

Subject: Water Treatment Plant Reliability Improvements
Engineering Services (RFP 15-27)
Change Order No. 2

Date: April 26, 2016

Recommended Action:

Staff recommends that City Council authorize the City Manager to execute Change Order No. 2 to an agreement for Water Treatment Plant Reliability Improvements Engineering Services (RFP 15-27) with CDM Smith (125 South Wacker Drive, Chicago, IL) in the not-to-exceed amount of \$13,955, increasing the contract amount from \$230,713 to \$244,668.

Funding Source:

This project is budgeted in the Water Fund (account 513.71.7330.62140 – 733094), which has a FY 2016 budget allocation of \$2,500,000 for engineering and construction. The City is in the process of obtaining a low interest loan from the Illinois Environmental Protection Agency (IEPA) to fund the project. Eligible engineering fees under this contract will be included in the loan funding. Ineligible engineering fees (\$1,984 for IEPA loan application assistance) will be paid for by the Water Fund.

Background:

The City Council authorized the City Manager to execute an agreement with CDM Smith for the subject project in the amount of \$225,113 on June 22, 2015. The project involves improvements and repairs at Evanston's Water Treatment Plant, including optimization of the initial chemical and mixing stages of treatment, structural repairs, installing permanent access to critical underground valves for repairs, replacing leaking underground piping, and improvements to the electrical and process control systems.

The original contract with CDM Smith included design engineering services, assistance during bidding, and assistance with the City's application for IEPA low interest loan funding. On July 22, 2015, Change Order No. 1 was authorized in the amount of \$5,600 to further modify the chemical treatment processes by relocating the feed points for phosphate (a pipe corrosion inhibitor used to maintain compliance with the Lead and Copper Rule). This increased the contract amount to \$230,713.

Analysis:

In the course of detailed design, it became apparent that the design for relocating the phosphate feed points and installing new phosphate feed equipment was more intricate than envisioned in preliminary design. This required additional time for CDM Smith to verify phosphate dosing requirements to the new feed points and properly design new piping and pumping systems.

The redesigned phosphate feed system will allow for more accurate distribution of phosphate between Evanston/Skokie and the Northwest Water Commission. This will also improve accuracy of the City's billings to the Commission for phosphate use. The additional engineering fee to complete this portion of the design is \$13,955 (see attached breakdown).

Legislative History:

The City Council approved contract award to CDM Smith on June 22, 2015.

The Acting City Manager approved Change Order No. 1 with CDM Smith on July 22, 2015.

Attachments:

Proposed Change Order No. 2

Additional design engineering fee breakdown from CDM Smith

**CITY OF EVANSTON
CHANGE ORDER**

Order No. 002
Date: April 26, 2016
Agreement Date: June 25, 2015

PROJECT: Water Treatment Plant Reliability Improvements
OWNER: City of Evanston
ENGINEER: CDM Smith

The following changes are hereby made to the **AGREEMENT**:
 The not-to-exceed fee shall be increased by \$13,955, from \$230,713 to \$244,668. Exhibit A to the Agreement shall be replaced with a new Exhibit A outlining the additional tasks and fee.

Change to CONTRACT PRICE: \$13,955

Original CONTRACT PRICE:	\$ 225,113.00
Current CONTRACT PRICE adjusted by previous CHANGE ORDERS	\$ 230,713.00
Total change in CONTRACT PRICE for this CHANGE ORDER <u>002</u>	\$ 13,955.00
The CONTRACT PRICE including this CHANGE ORDER will be	\$ 244,668.00

Original COMPLETION DATE	<u>May 31, 2016</u>
Current COMPLETION DATE adjusted by previous CHANGE ORDERS	<u>May 31, 2016</u>
Total Change in CONTRACT TIME for this CHANGE ORDER	<u>N/A</u>
The COMPLETION DATE including this CHANGE ORDER will be	<u>May 31, 2016</u>

Recommended by: _____ _____
Date

Accepted by (Engineer): _____ _____
Date

CDM Smith

Approved by (Owner): _____ _____
Date

City of Evanston

Water Treatment Plant Reliability Improvements
 Engineering Services (RFP 15-27)
 Change Order No. 2

Additional Design Engineering Fee Breakdown from CDM Smith

Task Description	Project Team Members													
	PM	Process / Civil Engineers	Structural Engineers	Electrical Engineers	Control Engineers	Construction Inspection	Cost Estimating	Admin	QA/QC	Civil - AIT (MBE)	Inspector - Ardmore (WBE)	Labor Hours	Labor Dollars	Other Direct Costs
3 Design Engineering														
Current Budget (including CO#1)	64	306	210	235	68	0	66	14	26	99	0	1088	\$145,025	\$3,500
Proposed Budget Revisions	8	72	-20	15	3		16		6			100	\$13,955	\$0
Subtotal Hours	72	378	190	250	71	0	82	14	32	99	0	1188		
Subtotal Dollars	\$15,200	\$46,922	\$22,971	\$31,775	\$10,910	\$0	\$10,168	\$1,302	\$7,440	\$12,292	\$0		\$158,980	\$3,500
Total Design Engineering Fee														\$162,480