



To: Lee R. Feldman, ICMA-CM, City Manager
From: Paul A. Berg, ICMA-CM, Public Works Director
Date: February 6, 2018
Re: Change Order No. 3 for Project 12197

Job Description: P12197 – Fiveash Water Treatment Plant Hydrotreators 3 and 4 Influent Pipe Modifications

Contractor: RF Environmental Services, Inc.

Amount: Total amount of Change Order No. 3: \$41,288.09 and 119 additional calendar days.

Funding: PBS670101-3299 (P12197.454-6599) - \$41,288.09

Itemized and explained as follows:

- 1. Repair leaks in Hydrotreater #3 sludge recirculation lines (Deduction). In Change Order #2, work to repair the sludge piping was included but the proposed repairing method cannot be performed due to the market unavailability of a 4" NSF 61 approved liner required to seal the pipes. For that reason, this work is removed from the scope.
2. Repair leaks in Hydrotreater #3 sludge recirculation lines. The existing 4 inch sludge recirculation lines are leaking. During the excavation process to replace the 30 inch influent pipe, ground water was present; the ground water was tested and discovered to contained chlorine. The sludge recirculation lines were pressure tested, to confirm the presence of leaks and the source of the chlorine. The method used to repair the leaks will be an application of brush casting epoxy lining applied to the inside the pipes. Once the epoxy application is completed, a CCTV pipeline inspection will be performed to confirm the leaks have been sealed.
3. Due to the additional scope associated with this change order and the free chlorination process which was performed at the Fiveash WTP from June 20th, 2017 to August 7th, 2017, an additional one hundred nineteen (119) calendar days will be added to the contract time. The revised completion date is March 8, 2018.

(A) DEDUCTIONS

Item No.

CO 3-1 Repair leaks in Hydrotreater #3 sludge recirculation lines from Change Order No. 2 (\$12,880.33)

TOTAL DEDUCTIONS (\$12,880.33)





**(B) ADDITIONS**

**Item No.**

CO 3-2      Repair leaks in Hydrotreator #3 sludge recirculation lines.      \$54,168.42

**TOTAL ADDITIONS    \$41,288.09**

**ADDITIONAL CONTRACT TIME BEING REQUESTED**

**ONE HUNDRED (119) CALENDAR DAYS**

**THE TOTAL AMOUNT OF THIS CHANGE ORDER**

**\$41,288.09**

**This Change Order provides for all costs and schedule adjustments associated with completing the work, including materials, labor, equipment, bond, insurance, overhead, profit, impacts, and any and all related items or associated costs incurred or resulting from the items listed above, and is provided in accordance with Article 13 – Changes in the Work of the Contract.**

Approved:

\_\_\_\_\_  
Thad Buckley  
RF Environmental Services, Inc.

\_\_\_\_\_  
Date

Recommended by:

\_\_\_\_\_  
Paul A. Berg  
Public Works Director

\_\_\_\_\_  
Date

Approved by:

\_\_\_\_\_  
Lee R. Feldman  
ICMA-CM, City Manager

\_\_\_\_\_  
Date

cc: Alan Dodd, P.E., Deputy Public Works Director  
Christopher Bennett, P.E., Assistant City Engineer  
Scott Teschky, CCM, LEED AP BD+C, Senior Project Manager  
Financial Administrator  
Project File



**CHANGE ORDER SUMMARY SHEET**

ORIGINAL CONTRACT AMOUNT	\$399,096.00
COST OF CHANGE ORDERS TO DATE	\$104,016.89
COST OF THIS CHANGE ORDER	\$41,288.09
<b>TOTAL:</b>	<b>\$544,400.98</b>
ORIGINAL CONTRACT TIME	330 calendar days
TIME ADDED TO DATE	0 calendar days
TIME ADDED TO THIS CHANGE ORDER	119 calendar days
<b>TOTAL:</b>	<b>449 calendar days</b>

**SCHEDULE OF CHANGE ORDERS TO DATE**

C.O.#	DATE	DESCRIPTION	AMOUNT OF COST OR CREDIT
1	3/3/17	Pipeline inspection, cleaning, pipe-line video and inspection report.	\$10,628.43
2	5/2/17	Repair Leaks in Existing 30" PCCP Piping Hydrotreator #3. Removal of existing thrust blocks Hydrotreator #4. Testing of existing Hydrotreator #3 sludge recirculation lines to find leaks. Repair leaks in sludge recirculation lines.	\$93,388.46