



# PROPOSED CHANGE ORDER REQUEST

Department of Watershed Management

Water Filter Removal, Repair, Replacement, and Maintenance at  
Scott Candler Water Filter Plant

Contract Name: ITB 17-100821 Date: 3/5/2018

Contractor: Griffin Brothers, Inc.  
Contract Number: CPA 1085915 Contract Amendment Number: 1

Contract Amendment Category:  Cost  Schedule  Scope  Deliverables

Original Contract \$ Amount:	Contract Start Date:	Original Contract Time:	Original Contract End Date:
\$1,806,075.62	1/18/2018	120	5/18/2018

NTP Start Date:	Original Performance Days:	Original Performance End Date:
1/18/2018	120	5/17/2018

Previous Change Order:	Previous Time Extensions (Days):	Previous Changes to \$ Amount:
Change Order No. 1:	0	\$0.00
Change Order No. 2:	0	\$0.00
Change Order No. 3:	0	\$0.00
Current Contract Amount:	Current Performance Time (Days):	Current Performance End Date:
\$1,806,075.62	120	5/17/2018

**Description of Proposed Changes:** The full list of line items in this Change Order is in Table 1 in this spreadsheet. Amendment/Change Order No. 1 is being proposed to provide additional dollars and time for the Contractor (Griffin Brothers, Inc) to perform the repairs to Filters 1A, 1B, 11A, and 11B as recommended by the manufacturer. These repairs specifically include the following: installation of grout to perimeter of Filter 1A, 1B, 11A, 11B between the underdrain and the wall; replacement of anchor bolts in Filter 1A and 11A; removal of high spots in Filter 1A; removal of grout that ran underneath underdrains in Filter 1A; adding a second nut to all anchor bolts in Filters 1A, 1B, 11A, and 11B; and addition of grout to raise the underdrain support in Filter 11A.

This Change Order will also provide funding for the removal of sand and carbon that was found in the effluent piping of Filter 1A via vacuum.

This Change Order will also provide funding for the purchase and shipment of 6 replacement actuators that are required for complete operation of Filters 1, 9, and 11 as indicated by staff of Scott Candler Water Plant.

This Change Order will also cover re-mobilization costs due to the Contractor leaving the site.

This Change Order will also cover additional costs identified by RFI's or the Construction Management Team.

**Justification of Proposed Changes:** The repairs to Filters 1A, 1B, 11A, and 11B were recommended by the manufacturer, who is considered the expert of filter design and construction. The specificity of the repairs was not described in the scope of work (ITB 17-100821) because there was no way to know what changes would be recommended before the manufacturer's inspection took place.

The replacement of the six actuators is required to operate the filters which is the end goal of this scope of work.

The removal of media in the effluent piping of Filter 1A was necessary because this media was only in the effluent piping due to the failure 5-years ago. There should be no media in the effluent pipes under normal operation.

Re-Mobilization is required because the Contractor left the site due to inactivity beginning on February 28, 2018.

Additional items identified by RFI's or the Construction Management Team are required to complete the work as intended by the ITB.

Proposed Additional Performance Days:	Proposed Cumulative Performance Days:	Proposed Performance End Date:	Proposed Contract End Date:
75	195	8/1/2018	8/2/2018
Proposed Changes to Dollar Amount:	Proposed Cumulative Contract Amount:		Amount Spent To Date:
\$78,316.36	\$1,884,391.98		\$0.00

Describe Any Risk Associated With This Change: No foreseen risk with performing this change.

Effect of NOT Approving This Change: Not approving this change order will not allow the repairs to be made to the filters, which are critical because the filter cells failed 5-years ago. The expert from the manufacturer (Ovivo) has visited the site and provided his recommendations, which are the basis of the repairs to Filters 1 and 11. These repairs should be made in accordance with the manufacturer's recommendation.

KBW 03/05/18

Deputy Director's Approval:

- Accepted
Rejected

Signature: [Handwritten Signature]
Print Name: Margaret E. Tanner
Date: 03/05/2018

Watershed Director's Approval:

- Accepted
Rejected

Signature: [Handwritten Signature]
Print Name: Scott A. Towler
Date: 3/06/2018

Chief Operating Officer's Approval:

- Accepted
Rejected

Signature: [Handwritten Signature]
Print Name: Ted Rhinick
Date: 3/6/18

Water Filter Removal, Repair, Replacement, and Maintenance at Scott Candler Water Filter Plant

Contract Name: Griffin Brothers, Inc.

Contract Number: CPA 1085915

Contract Amendment Number: 1

Table 1: Change Order Line Items

ITEM NO.	SOURCE	ORIGIN	DESCRIPTION	UNIT	APPROX QTY.	UNIT PRICE	PROPOSED AMOUNT	RECOMMENDED AMOUNT	# OF DAYS INCREASE
1		OVIVO Letter regarding Filter 1A and 1B, February 21, 2018	Grout around perimeter of Filter 1A and 1B to 2" thickness	EA	2	\$ 7,500.00	\$ 15,000.00		0
2		OVIVO Letter regarding Filter 1A and 1B, February 21, 2018	Removal of excess grout in Filter 1A	EA	1	\$ 1,000.00	\$ 1,000.00		0
3		OVIVO Letter regarding Filter 1A and 1B, February 21, 2018	Replacement of anchors in Filter 1A	EA	3	\$ 25.00	\$ 75.00		0
4		OVIVO Letter regarding Filter 1A and 1B, February 21, 2018	Double nut all anchors in Filter 1A, 1B, 11A, 11B	CELL	4	\$ 1,200.00	\$ 4,800.00		0
5	SUBMITTAL 01 2600-001	OVIVO Letter regarding Filter 1A and 1B, February 21, 2018	Removal of high spot in concrete in Filter 1A	LS	1	\$ 4,500.00	\$ 4,500.00		0
6		RFI #10	Filter 1A removal of media in effluent pipe	LS	1	\$ 3,900.00	\$ 3,900.00		0
7		Ovivo Field Report Filter 11A and 11B, March 2, 2018	Replacement of anchor in Filter 11A	EA	1	\$ 25.00	\$ 25.00		0
8		Ovivo Field Report Filter 11A and 11B, March 2, 2018	Addition of grout to raise underdrain support for underdrains 6-10 (counting from the South wall) in Filter 11A	LS	1	\$ 7,500.00	\$ 7,500.00		0
9		Ovivo Field Report Filter 11A and 11B, March 2, 2018	Grout around perimeter of Filter 11A and 11B to 2" thickness	EA	2	\$ 7,500.00	\$ 15,000.00		0
10		Contractor's Proposed Change Order #1, March 5, 2018	Ovivo Site Visit for Repairs 1A	EA	1	\$ 7,400.00	\$ 7,400.00		0

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ITEM NO.	SOURCE	ORIGIN	DESCRIPTION	UNIT	APPROX QTY.	UNIT PRICE	PROPOSED AMOUNT	RECOMMENDED AMOUNT	# OF DAYS INCREASE
11		Contractor's Proposed Change Order #1, March 5, 2018	Ovivo Site Visit for Repairs 1B	EA	1	\$ 7,400.00	\$ 7,400.00		0
12		Contractor's Proposed Change Order #1, March 5, 2018	Ovivo Site Visit for Repairs 11A	EA	1	\$ 7,400.00	\$ 7,400.00		0
13		Contractor's Proposed Change Order #1, March 5, 2018	Ovivo Site Visit for Repairs 11B	EA	1	\$ 7,400.00	\$ 7,400.00		0
14	SUBMITTAL 01 2600-001	Contractor's Proposed Change Order #1, March 5, 2018	Re-Mobilization	LS	1	\$ 4,500.00	\$ 4,500.00		0
15		Field Change Agreement 001	Purchase and delivery of six replacement AUMA actuators per Field Change Agreement 001	LS	1	\$ 31,986.36	\$ 31,986.36		0
16		Contractor's Measurements / Submittal #01 2219-001	Credit for decrease in GAC required for Top Off of Filters 2-10 and 12 from 282,000lb to 91,000lb, minus re-stocking fee and increased media price	LS	1	\$ (69,570.00)	\$ (69,570.00)		0
17		Contractor's Proposed Change Order #1, March 5, 2018	Time Extension for changes listed above	n/a	n/a	n/a	n/a	n/a	56
18	Construction Management Recommended Items	RFI #6	Removal and replacement of single pane windows for access of vacuum hose near Filter 1 and 11 and to slurry new filter media	EA	3	\$ 1,000.00	\$ 3,000.00		0
19		Construction Management Recommended Item	Need to furnish pumps for draining water each time filter is backwashed	EA	2	\$ 3,000.00	\$ 6,000.00		7
20		Construction Management Recommended Item	Sodium Bisulfite for quenching of chlorine after disinfection	CELL	4	\$ 2,000.00	\$ 8,000.00		4

Table 1: Change Order Line Items

ITEM NO.	SOURCE	ORIGIN	DESCRIPTION	UNIT	APPROX QTY.	UNIT PRICE	PROPOSED AMOUNT	RECOMMENDED AMOUNT	# OF DAYS INCREASE
21	Construction Management Recommended Items	RFI #11	rental and use of in-line pump to increase pressure to 80-psi at fire hydrant	LS	1	\$ 6,000.00	\$ 6,000.00		3
22		Construction Management Recommended Item	Contractor will observe a final backwash of each filter cell after the GAC has been added and all media is in the filter.	CELL	4	\$ 1,250.00	\$ 5,000.00		4
23		Construction Management Recommended Item	Contractor will cover stored media with a tarp to protect from UV penetration	LS	1	\$ 2,000.00	\$ 2,000.00		1
TOTAL	n/a	n/a	n/a	n/a	n/a	n/a	\$ 78,316.36	\$	75