

**CITY OF OREGON CITY**  
**Amendment No. 1 to Personal Services Agreement**

**WATER DISTRIBUTION SYSTEM CIP UPDATE (PS 17-019)**

This is an Amendment to the Personal Services Agreement by and between the City of Oregon City (hereinafter City), and **Murraysmith**, hereinafter called "PS Consultant," which was previously entered into on **November 6, 2017** ("Contract") for **WATER DISTRIBUTION SYSTEM CIP UPDATE (PS 17-019)** and

Whereas, the parties wish to amend the Contract as set forth below:

**WITNESSETH:**

1. The **Scope of Work** is hereby amended as follows:

The Scope of Services under this Agreement shall consist of services as detailed in Amendment 1 Exhibit A, attached hereto and by this reference incorporated herein.

2. The **Duration of Contract** is hereby amended as follows:


The expiration date of this contract is extended from **July 31, 2018**, to **December 31, 2018**.

3. The **Payment Provisions** are hereby amended as follows:

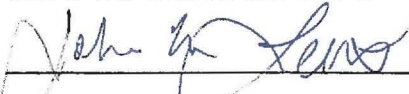
For provision of revision of fee schedule described above, the contract price shall be increased by an amount not to exceed **twelve thousand dollars and no/100 (\$12,000.00)**. The total not to exceed amount of the Agreement shall be **seventy-nine thousand, five hundred and two dollars and no/100 (\$79,502.00)**

All other provisions of the Personal Services Agreement referenced above shall remain in full force and effect.

**MURRAYSMITH**

By:   
Name: BRIAN GINTER  
Title: VICE PRESIDENT  
Date: 9/13/18

**CITY OF OREGON CITY**

  
John M. Lewis, P.E.  
Public Works Director  
Date: 9-11-2018

Date Authorized by Commission, if applicable:

November 1, 2017

**EXHIBIT A**  
**SCOPE OF WORK**  
**WATER DISTRIBUTION SYSTEM**  
**CAPITAL IMPROVEMENT PROGRAM UPDATE**  
**AMENDMENT No. 1, Task 4**  
**CITY OF OREGON CITY**

## **Background**

The City of Oregon City (Oregon) has requested that Murraysmith perform an analysis of water distribution operations for emergency conditions. The work is intended to recommend options for emergency service, if the South Fork Water Board 30-inch main on Quail Ct and Hiram Ave is out of operation due to repair and during completion of a 42-inch pipeline improvement on Cleveland Street.

This work is an amendment to the Water Distribution System Capital Improvement Program Update (PS 17-019).

## **Scope of Services**

Murraysmith will perform the following services:

### **Task 4 – Emergency Conditions Analysis**

- Develop Mapping of system pressures and fire flow with the 30-inch main and Division Street Pump Station out of service. Tabulate an estimate of storage availability (duration of supply) for winter time demands with the 30-inch main and Division Street Pump Station out of operation. The evaluation will isolate the portion of the system supplied through the Mountain View Reservoirs from the portion of the system that can be supplied through the Hunter Avenue Pump Station and associated reservoirs. Provide emergency operational recommendations for winter time demands and fire flow demands.
- Evaluate potential emergency supply from West Linn via the Bolton Reservoir, isolation of transmission mains, and West Linn’s emergency pump station. Review GIS and West Linn model to determine potential options for pipe isolation and associated service impacts. Coordinate via phone and email any operational questions for City staff to investigate in the field.
- Evaluate supply options to Oregon City through Clackamas River Water (CRW) including status of the backbone piping project to provide service via the Hunter Ave Pump Station, Barlow

Crest Pump Station, and associated reservoirs. Participate in a meeting with CRW, Oregon City, and West Linn staff to discuss emergency operations.

- Provide recommendations on duration of supply available during the tie-in of the 42-inch pipeline on Cleveland Street.

### *Task Deliverable*

- The results of the evaluation will be documented in a brief technical memorandum which will include results mapping and bullet list recommendations.

## **Budget**

The work will be billed on a time and expenses basis in accordance with the current standard Schedule of Charges in effect at the time the work is performed. The amendment will be managed and billed to an overall not to exceed value of \$12,000.

## **Project Schedule**

It is anticipated that Murraysmith will begin work after receipt of the notice to proceed. Final deliverables will be completed within 45-days from Notice to Proceed. Because of the urgency of the task, draft results and recommendations will be provided by email as soon as information is available.

**WATER DISTRIBUTION SYSTEM CAPITAL IMPROVEMENT PROGRAM UPDATE  
CITY OF OREGON CITY  
PROPOSED FEE ESTIMATE**

BUDGET REFLECTS TASK 4  
(AMENDMENT 1, 9/11/2018)

							ESTIMATED FEES		
	Principal Engineer I	Professional Engineer VIII	Engineering Designer III	Engineering Designer I	Administrative II	Hours	Labor	Expenses	Total
	\$191 Brian Ginter	\$174 Shad Roundy	\$135 Sven MacAller	\$114 Claire DeVoe	\$88 Kelsey Pitts				
<b>Task 1 - Develop Alternatives</b>									
Task 1.1 - A. Review background data and documents and prepare updated mapping	2	4	8	12		26	\$ 3,526	\$ 120	\$ 3,646
Task 1.2 - B. Existing CIP review and alternatives workshop	3	4	4		1	12	\$ 1,897	\$ 25	\$ 1,922
Task 1.3 - C. Review condition and operations data	1	4	16	16		37	\$ 4,871	\$ -	\$ 4,871
Task 1.4 - D. Review system demands for future conditions		4		16		20	\$ 2,520	\$ 100	\$ 2,620
Task 1.5 - E. Identify Beavercreek Concept Area Supply Options	6	12	8	8		34	\$ 5,226	\$ -	\$ 5,226
Task 1.6 - F. Early analysis of PRV configuration (near river, mill redevelopment)		8	16			24	\$ 3,552	\$ 120	\$ 3,672
Task 1.7 - G. Update unit costs	2	12				14	\$ 2,470	\$ -	\$ 2,470
<b>Task 1 Subtotal</b>	<b>14</b>	<b>48</b>	<b>52</b>	<b>52</b>	<b>1</b>	<b>167</b>	<b>\$ 24,062</b>	<b>\$ 365</b>	<b>\$ 24,427</b>
<b>Task 2 - Evaluate Alternatives and Develop Capital Improvement Program</b>									
Task 2.1 - A. Evaluate improvement alternatives		8	40			48	\$ 6,792	\$ 240	\$ 7,032
Task 2.2 - B. Identify booster station improvements	3	6	8			17	\$ 2,697	\$ 85	\$ 2,782
Task 2.3 - C. Evaluate PRV configuration and settings	2	4	16			22	\$ 3,238	\$ 110	\$ 3,348
Task 2.4 - D. Overlay condition and capacity, identify pipe replacement	1	4		16		21	\$ 2,711	\$ 105	\$ 2,816
Task 2.5 - E. Cost estimation		4		16		20	\$ 2,520	\$ -	\$ 2,520
Task 2.6 - F. Alternatives results workshop	4	16	16			36	\$ 5,708	\$ -	\$ 5,708
Task 2.7 - G. Phasing analysis	1	6	16			23	\$ 3,395	\$ 115	\$ 3,510
Task 2.8 - H. Prioritization workshop	3	6	4			13	\$ 2,157	\$ -	\$ 2,157
Task 2.9 - I. Draft and Final Documentation	6	16	16	16		54	\$ 7,914	\$ -	\$ 7,914
<b>Task 2 Subtotal</b>	<b>20</b>	<b>70</b>	<b>116</b>	<b>48</b>	<b>0</b>	<b>254</b>	<b>\$ 37,132</b>	<b>\$ 655</b>	<b>\$ 37,787</b>
<b>Task 3 - Project Management</b>									
Task 3.1 - Project coordination	8					8	\$ 1,528	\$ -	\$ 1,528
Task 3.2 - Monthly invoicing	8				8	16	\$ 2,232	\$ -	\$ 2,232
Task 3.3 - QA/QC coordination	8					8	\$ 1,528	\$ -	\$ 1,528
<b>Task 3 Subtotal</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>32</b>	<b>\$ 5,288</b>	<b>\$ -</b>	<b>\$ 5,288</b>
<b>Task 4 - Emergency Conditions Analysis (Amendment 1)</b>						0	\$ -	\$ -	\$ -
Task 4.1 - Pressure, fireflow, and supply availability		4		24		28	\$ 3,432	\$ -	\$ 3,432
Task 4.2 - West Linn Supply		2		24		26	\$ 3,084	\$ -	\$ 3,084
Task 4.3 - CRW Supply & Meeting	3	2		8		13	\$ 1,833	\$ -	\$ 1,833
Task 4.4 - 42-inch Tie-in		2				2	\$ 348	\$ 53	\$ 401
Task 4.5 - Documentation	2	6		16		24	\$ 3,250	\$ -	\$ 3,250
<b>Task 4 Subtotal</b>	<b>5</b>	<b>16</b>	<b>0</b>	<b>72</b>	<b>0</b>	<b>93</b>	<b>\$ 11,947</b>	<b>\$ 53</b>	<b>\$ 12,000</b>
<b>TOTAL - ALL TASKS</b>	<b>63</b>	<b>134</b>	<b>168</b>	<b>172</b>	<b>9</b>	<b>546</b>	<b>\$ 78,429</b>	<b>\$ 1,073</b>	<b>\$ 79,502</b>