### Exhibit A

### AMENDMENT NO. 2

### CONTRACT NO. <u>30001295</u>

### FOR

### Forest Park Low Tank

Pursuant to Ordinance No.

This Contract was made and entered by and between <u>Murray, Smith & Associates, Inc.</u>, hereinafter called Contractor, and the City of Portland, a municipal corporation of the State of Oregon, by and through its duly authorized representatives, hereinafter called City.

The Contract is hereby amended as follows:

1. Additional work is necessary as described in the Scope of Work attached as Exhibit A.

2. Additional compensation is necessary and shall not exceed <u>\$130,884</u> as detailed in the attached Exhibit B. The new not to exceed amount of this contract shall be \$686,636.

All other terms and conditions shall remain unchanged and in full force and effect.

### CONTRACTOR SIGNATURE:

This contract amendment may be signed in two (2) or more counterparts, each of which shall be deemed an original, and which, when taken together, shall constitute one and the same contract amendment.

The parties agree the City and Contractor may conduct this transaction by electronic means, including the use of electronic signatures.

Murray, Smith & Associates Inc Date: 8/11/11 By: Name Title:

almon. Suite 900, Portland, OR 97204 Address: Telephone: 90K

# 184867

Contract No. 30001295 Amendment/Change Order No. 2\_\_\_\_

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Contract Title: Forest Park Low Tank

## **CITY OF PORTLAND SIGNATURES:**

By:		Date:	
•	Chief Procurement Officer	Date.	<b></b>
By:		Date:	
	Elected Official		
Approv	ed:		•
Ву:		Date:	
	Office of City Auditor		5
Approv	ed as to Form:		· · ·
By:	mla henge	Date:	8/15/2011
	Office of City Attorney CITY ATTORNEY		

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### Exhibit A Amendment 2, Contract No. 30001295

1. The Contractor shall perform the following tasks for the indicated rates in addition to tasks noted in the original scope of work and previous amendment. All deliverables shall be provided on a CD in Microsoft Word and PDF format with the drawing files in Microstation or other format that conforms to PWB Computer Aided Drafting (CAD) standards in addition to ten (10) hard copies.

A. <u>Design of Temporary Shoring Systems - \$67,048</u>:

Provide contract documents for the temporary construction shoring system needed during the tank excavation. All elements of the designed shoring system must be located on PWB property.

The contract documents shall be signed and stamped by a registered professional engineer. The contract documents shall include drawings showing the shoring system layout in plan views, cross sections, and details as required to adequately construct the shoring system. The contract documents shall also include specifications. A draft submittal of the contract documents shall be reviewed and commented on by the Portland Water Bureau (PWB) Project Manager or their designee. The Contractor shall incorporate these comments into the final shoring system contract documents.

Prepare and submit construction cost estimates for the proposed shoring system and alternative design scenarios.

Prepare and submit a draft memorandum summarizing shoring system alternatives, their costs, and the Contractors recommendations. The final memorandum shall include comments from PWB.

Attend one meeting with PWB to discuss the preferred shoring system.

B. <u>Temporary Shoring System - \$38,483</u>:

Review and respond to a maximum of four (4) Requests for Information (RFI's) from the construction contractor.

Provide up to six (6) field visits by a geotechnical engineer knowledgeable with the designed shoring system.

C. General Geotechnical Observation Services - \$25,353:

Meet with the Owner and design team to coordinate field visits and testing.

Provide field observations as recommended in the Geotechnical Report by Pacific Geotechnical, dated June 30, 2011 along with any additional requests by the

### Exhibit A

## Amendment 2, Contract No. 30001295

Owner. A maximum limit on field observations is set at 26 part-time field visits (4 hours or less) and 7 full-time field visits (8 hours). Field observation reports shall be submitted to PWB following each visit.

Review and respond to all RFI's associated with geotechnical issues.

Review all design-build elements such as ground improvements, dewatering, and permanent retaining walls.

Prepare and submit a final summary letter to PWB for construction monitoring activities.

#### Exhibit B Amendment 2 for Contract 30001295

Task Compensa	tion Lim	iits For	est Park	Low Tar	nk		
	Original		Amend, 1	Amend, 1	Amend, 2	Amend, 2	
Task	MSA	Sub	MSA	Sub	MSA	Sub	Total
Description of the second seco	Expense	s Expenses	Expenses	Expenses	Expenses	Expenses	Expences
Phase A. Project Management Task 1 Basic Project Management							
	\$33,390	\$0					\$33,390
Phase A Tota Phase B. Pre-design	al		_				\$33,390
Task B.1 Computation Fluid Dynamics (CFD)							
Task B1.1 Initial Mixing System Analysis Draft Memo							L
Task B1.3 – Additional CFD Modeling Memo	\$1,665	\$45,115					\$46,780
Task B.2 Geotechnical Investigation	\$665	\$6,335					\$7,000
Task B2.1 Geotechnical Investigations	\$1,218	\$23,900					L
Task B2.2 Final Geotechnical Report			\$2,987	\$10,658	+		\$38,763
Phase B Tota	\$1,934	\$10,280					\$12,214
Phase C. Design	<u>'</u>		·	+	+	+	\$104,757
Task C.1 Basic Design			·		+	+	
Task C1.1 - 30% Submittal Package	\$24,355	\$17,517	-+	+	+	+	644 075
Task C1.2 60% Submittal Package <sup>2</sup>	\$36,875	\$28,275			<u> </u>		\$41,872
Task C1.3 90% Submittal Package <sup>3</sup>	\$36,875	\$28,275	+	+	+	+	\$65,151
Task C1.4 100% Submittal Package <sup>3</sup>	\$21,550	\$18,017		+	<u> </u>	+	\$65,151
Task C1.5 FINAL Signed Package	\$2,700	\$500	+	+	+		\$39,567
Task C1.6 Constructability Review	\$3,271	\$3,150	+	+			\$3,200
Task C1.7 Assistance During Bidding	\$8,000	\$788		+	\$2,000	\$3,500	\$6,421
Task C.2 Additional Design Services	+		+	+	\$2,000	\$3,500	\$14,287
Task C2.1 Water Quality Review	\$1,200	\$9,500	+	<u> </u>			\$10,700
Task C2.2 Architecture Design	\$1,800	\$10,500	+	+			\$12,300
Task C2.3 Seismic Valve Design	\$3,500	\$500		1			\$12,300
Task C2.4 Downstream Storm Sewer Analysis	\$6,000	\$0					\$6,000
Task C2.5 Paving and Storm Drainage for Private Access Road	\$7,500	\$0		+			\$7,500
Task C2.6 Additional cost for alternative buried vault structure	\$1,200	\$9,925					\$11,125
Task C2.7 - Design of cast-in-place concrete retaining walls	\$1,500	\$15,000					\$16,500
Task C2.8 Design of Temporary Shoring Systems			f	†	\$15,500	\$46,048	\$61,548
Phase C Total							\$365,323
Phase D. Permitting							\$005,325
Task D.1 Basic Permitting	[						
Task D1.1 Type III Conditional Use Permit (from BDS)	\$9,512	\$6,300	******				\$15,812
Task D1.2 Discharge Permit (from BES)	\$3,567	\$0					\$3,567
Task D1.3 NPDES 1200-C (from DEQ)	\$2,378	\$0			******		\$2,378
Task D1.4 Building Permit (from BDS) <sup>4</sup>	\$6,125	\$0					\$6,125
Task D1.5 Tree Permit (from City Forester)	\$2,378	\$0			******		\$2,378
Task D1.6 Type II Lot Validation (from BDS)			\$4,890	\$3,360			\$8,250
Phase D Total							\$38,511
Phase E. Assistance During Construction							
Task E.1 Construction Administration Assistance	\$15,163	\$8,045					\$23,208
Task E.2 Construction Observation Assistance	\$13,919	\$9,962					\$23,881
Task E.3 Assistance with Shop Drawing Review	\$15,099	\$5,266					\$20,365
Task E.4 Assistance with Substantial Completion and Final nspection							******
	\$4,640	\$2,746					\$7,386
Task E.5 Review O&M manuals	\$1,680	\$350		<u> </u>			\$2,030
ask E.6 Assistance with Preparation of Record Drawings	\$3,600	\$350	· · · · · · · · · · · · · · · · · · ·				\$3,950
ask E.7 General Geotechnical Observation Services						\$25,353	\$25,353
ask E.8 Temporary Shoring Systems					\$12,000	\$26,483	\$38,483
Total All Tasks	0070 00						\$144,656
otal All Tasks otes:	\$273,261	\$260,597	\$7,877	\$14,018	\$29,500	\$101,384	\$686,636

Notes:

1.) Submittals to Include: Plans, Specifications, Design Memorandum, Cost Estimate, Schedule

2.) Submittals to Include: Plans, Specifications, Design Memorandum, Cost Estimate, Schedule, Calculations

3.) Submittals to include: Plans, Specifications, Design Memorandum, Cost Estimate, Schedule, Calculations, Resolution to City's BCOE Comments

4.) Building Permit to Include: Electrical, Plumbing, Mechanical, Structural, Other Reviews Part of Building Permit