

**AMENDMENT NO. 2 TO THE AGREEMENT  
BETWEEN THE CITY OF SAN MATEO AND  
WATERWORKS INDUSTRIES, INC. FOR  
MARINA LAGOON VEGETATION AND WATER QUALITY MANAGEMENT  
(\$632,730 + \$44,770 = \$677,500)**

WHEREAS, the City of San Mateo (“City”), a municipal corporation of the State of California, and Waterworks Industries, Inc. (Consultant”), entered into an Agreement for Marina Lagoon Vegetation and Water Quality Management Professional Services (“Agreement”) on February 4, 2020; and

WHEREAS, City and Waterworks Industries, Inc. wish to amend the Agreement effective August 17, 2020 to add \$44,770 for an increased frequency of tasks described in the original scope Exhibit A of this Agreement, and for the development of a Marina Lagoon Water Quality Management Plan, as described in Exhibit A1.

NOW, THEREFORE, the parties agree as follows:

1. Section 1 – Scope of Services of the Agreement is amended to reference “Exhibit A, and A1”
2. Section 5 – Payment of the Agreement is amended to reference “Exhibit B, B1, and B2.” The fee schedule set forth in Exhibit B2 to the Agreement is attached and incorporated by reference, changing the fee from \$632,730 to \$677,500.
3. The remaining terms of the Agreement remain in full force and effect.

IN WITNESS WHEREOF, CITY OF SAN MATEO and WATERWORKS INDUSTRIES, INC. have executed this Agreement on \_\_\_\_\_.

CITY OF SAN MATEO

CONSULTANT

\_\_\_\_\_  
Brad B. Underwood  
Public Works Director

\_\_\_\_\_  
Richard Carnation  
CEO, Waterworks Industries, Inc.

Attachments:

Exhibit A1

Exhibit B2

## EXHIBIT A1

### ADDITIONAL SCOPE OF SERVICES

#### Marina Lagoon Vegetation and Water Quality Management Plan Development

Blankinship & Associates, Inc. will work with City staff and Waterworks Industries to draft a Marina Lagoon Vegetation and Water Quality Management Plan. The Plan will be developed using stakeholder input to identify and prioritize problems and management challenges in the Lagoon. The Plan may identify management goals, describe relevant IPM-based approaches for aquatic weed and algae control and their associated costs, propose schedules for annual management activities, suggest refinements in decision-making processes, and establish metrics for evaluating management actions. Additionally, the plan may describe recommendations for on-going water quality monitoring and site scouting, education and outreach opportunities, and future topics of study. The intent of the Plan will be to provide guidance for City staff and contractors working on the Lagoon and will be drafted as a living document that should be reviewed and updated annually and as new information becomes available.

#### **Specific Tasks:**

##### Task 1: Kickoff Meeting

Document requests, stakeholder management objectives, review of recent algae and vegetation management work, identification of management challenges and primary areas of focus.

##### Task 2: Marina Lagoon Existing Conditions Research

Inventory existing data, research and identify watershed inputs, ambient bay water quality, 303(d) impairments, fecal indicator bacteria (FIB) trends, sedimentation issues, beneficial uses, and historical site-specific challenges.

##### Task 3: Problem Identification and Prioritization

Based on input from City, lake management contractor and stakeholders, identify problems and management challenges. Inventory locations of primary concern, seasonal issues, water quality concerns, and factors that may contribute to these problems. Prioritize problems and management challenges based on resources available for response actions.

##### Task 4: Identification of Management Objectives and Solutions

Based on the results of Task 3, we will provide a matrix of management objectives, management practices and estimated costs. The matrix will include short- and long-term approaches and identify responsible parties for implementation of solutions.

##### Task 5: Lagoon Management Plan

The Plan document will incorporate and synthesize information from Task 2 through 4, and will include observation- and calendar-based thresholds, response actions to address specific problems and potential drawbacks, short- and long-term goals for the Lagoon, discussion of future dredging work, and future expected or anticipated management challenges. The plan will include areas of additional study

related to the management of the lagoon. For example, a hydraulics study of lagoon water exchange or sediment depth and quality investigations to inform future dredging decisions. As a dynamic document, the Plan will include a schedule for review and modifications in response to changing conditions, increased knowledge, additional opportunities or new management challenges.

**Schedule of Tasks:**

Task 1 – August 2020

Task 2 and Task 3 – August-October 2020

Task 4 – October -November 2020

Task 5 – December 2020 – January 2021

Exhibit B2 - Waterworks

Estimated Labor Hours

Project Task	Unit	Estimated Units	Cost / Unit	Total Estimate
Weekly Lagoon Inspections April-September	Day	27	525.00	\$14,175.00
Consulting	Hours	10	125.00	\$1,250.00
Rotovation / MPAV	Day	0	2,750.00	\$0.00
Combined Herbicide/Algaecide Applications	Acres	63	630.00	\$39,690.00
Herbicide Applications	Acres	37	615.00	\$22,755.00
Algaecide Applications	Acres	47	595.00	\$27,965.00
NPDES Water Quality Monitoring & Lab Analysis	Day	6	1,800.00	\$10,800.00
Mechanical Harvesting / with disposal	Day	20	1,525.00	\$30,500.00
NPDES Data Tabulation & Annual Report	Report	1	3,000.00	\$3,500.00
NPDES Prep of APAP & NOI for new Permit (anticipated 2021 for cost estimate purposes)	APAP & NOI	0	5,000.00	\$0.00
Routine Maintenance Agreement Training	Hours	10	185.00	\$1,850.00
Debris Recycling and Disposal	Cubic Yard	130	45.00	\$5,850.00
Storm Event Cleanup	Event	3	3,250.00	\$9,750.00
Special Request Clean Up	Event	2	2,500.00	\$5,000.00
CDFW Agreement Support	Days	2	1,575.00	\$3,150.00
Amendment #1 -add contingency for additional task units per Exhibit A scope of work for 2020	Various	Various	93,000	\$93,000
<b>Amendment #2 – additional task units – Exhibit A scope of work for 2020</b>	<b>Various</b>	<b>Various</b>	<b>19,770</b>	<b>19,770</b>
<b>Amendment #2- Lagoon Vegetation and Water Quality Management Plan Development – Exhibit A1</b>	<b>Event</b>	<b>1</b>	<b>25,000</b>	<b>25,000</b>
<b>Total</b>				<b>\$314,005.00</b>

Proposed Budget and Fee Schedule

Three year not to exceed budget: Amendment No. 2			
2020	2021	2022	Total
\$314,005	\$179,503.13	\$183,990.70	\$677,500