

Submit in Duplicate

STATE OF HAWAII
REQUEST FOR SOLE SOURCE STATE PROCUREMENT OFFICE
STATE OF HAWAII

TO: Chief Procurement Officer

FROM: DOH, Environmental Management Division, Safe Drinking Water Branch
(Department/Division/Agency)

Pursuant to §103D-306, HRS, and Subchapter 9, Chapter 3-122, HAR, the Department requests sole source approval to purchase the following:

Description of goods, services, or construction: #1 See Attached

Name of Vendor: Moanalua Gardens Foundation, Inc. Address:	Cost: \$ 30,000.00
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Term of Contract: From: October 2005 To: June 2006	Prior Sole Source Reference No.:
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The goods, services, or construction has the following unique features, characteristics, or capabilities: #2 See Attached
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REQUEST FOR SOLE SOURCE (Cont.)

How the unique features, characteristics, or capabilities are essential for the agency to accomplish its work:

#3 See Attached

The following other possible sources for the goods, services, or construction were investigated but do not meet our needs because:

#4 See Attached

Direct questions to: Robert Chong/William Wong Phone: 586-4258

I certify that the information provided above is to the best of my knowledge, true, correct and that the goods, services, or construction are available through only one source.

Lucy Jackson JUN 22 2005
 Department Head or Designee Date
Deputy Director of Health
 Title (If other than Department Head)

Chief Procurement Officer's comments:

Please ensure adherence to applicable administrative and statutory requirements.

Expenditure may be processed through a purchase order: Yes No . If no, a contract must be executed and funds certified.

APPROVED DISAPPROVED

Robert Chong 7/5/05
 Chief Procurement Officer Date

REQUEST FOR SOLE SOURCE

#1

Moanalua Gardens Foundation's (MGF) *Partners in Education Program* works with teachers to provide in-depth, environmental educational experiences through classroom and field trip teaching, distance learning television series, workshops for teachers and curriculum materials developed by MGF.

MGF's 75-minute classroom lesson on the *Water Systems of Hawai'i* teaches students in grades 4-6 about fresh water resources, groundwater protection and water conservation in Hawai'i. MGF's classroom lessons have been designed to meet the Department of Education's benchmarks and standards. MGF's six-hour field trip on *Water Resources of O'ahu Bus Tours* offer students the opportunity to experience and reinforce what they have learned in the classroom.

#2

The *Partners in Education Program*:

- Helps teachers and students increase their knowledge and understanding of the Hawaiian culture and environment.
- Assists teachers and students in meeting new educational standards by providing them with current updated curriculum aligned with the Hawai'i Content and Performance Standards.
- Promotes student involvement in projects that contribute to healthy, sustainable island communities and allow students to share their experiences with peers and the community.

Prior to a *Water Systems of Hawai'i* classroom presentation, MGF provides teachers with an outline of the topics that includes recommended audio-visual curriculum materials that teachers should utilize and concepts that they should teach. After participating educators have covered this initial teaching, an MGF education specialist then conducts classroom teaching utilizing a slide show or PowerPoint presentation, along with appropriate rock samples and demonstrations. Major concepts include: the principle of the Ghyben-Herzberg groundwater lens, water systems (rain catchment, surface water, groundwater), geology (permeable lava flows, dikes, caprock), the water cycle (evaporation, condensation, precipitation, infiltration), types of groundwater (basal lens, perched artesian springs, dikes), ways of obtaining water (wells, shafts, tunnels, ditches, springs), location and role of forests (aquifer cover, watershed), groundwater quality and protection, water conservation, and alternative sources of water (treated sewage, discharge, desalinization, dual line systems).

Most teachers who request a *Water Systems of Hawai'i* classroom presentation also request a follow-up field trip experience, MGF's

Water Resources of O`ahu Bus Tour. MGF's field trips are only offered in conjunction with one or more preparatory classroom presentations prior to the field experience. The bus tour includes five stops that allow students to explore the island water resources and focus on groundwater education. The stops include: the Nu`uanu reservoir or the Board of Water Supply (BWS) Fred Ohrt Water Museum depending on weather conditions, the Sumida Farm, the Waiahole Ditch in Mililani, the Wahiawa Fresh Water Park, and the Kunia Reservoir. Staff from the BWS and managers of the Sumida Farm offer students an opportunity to learn from their expertise. MGF staff provides all the other teaching during the course of the day. Throughout the day, students complete activity sheets and participate in cumulative activity in which teams collect paper water drops when they provide the correct answers to questions asked. The team with the most water drops collected at the end of the day is declared the winner.

MGF is confident that after completion of this water unit, most student participants know more about Hawai`i water systems, groundwater protection and water conservation than most adults. The students will be better caretakers of our water resources because of the solid understanding they possess after MGF's *Water Systems of Hawai`i* classroom presentation and *Water Resources of O`ahu Bus Tour*.

#3

MGF's *Water Systems of Hawai`i* and *Water Resources Bus Tour* teach students in grades 4-6 about fresh water resources and focus on groundwater protection and conservation.

MGF staff has the knowledge and experience of partnering with educators, developing and disseminating environmental curriculum that meet DOE benchmarks, and providing teacher training for MGF's *Water Systems of Hawai`i*.

#4

For the previous SDWB `Ohi`a contract with MGF in 2002-2003, SDWB investigated the Hawai`i State Department of Education and the University of Hawai`i, Water Resources Research Center (WRRC). However, both organizations did not meet SDWB groundwater protection and conservation objectives for the following reasons.

- The Hawai`i State Department of Education recommended that SDWB work with MGF on the `Ohi`a Project.
- The University of Hawai`i does not have the staff or expertise to develop educational groundwater resource materials for elementary and secondary students that are aligned with DOE's Content and Performance Standards.