

BOARD MEETING DATE: December 3, 2021

AGENDA NO. 5

PROPOSAL: Recognize Revenue, Transfer and Appropriate Funds, Amend Contract, Issue Solicitations and Purchase Orders for Air Monitoring Equipment and One Vehicle

SYNOPSIS: South Coast AQMD is expected to receive up to \$794,261 from U.S. EPA for the FY 2022 (30th Year) PAMS Program. These actions are to recognize revenue and appropriate funds when they become available in Science & Technology Advancement's FY 2021-22 and/or FY 2022-23 budgets for the PAMS Program, transfer and appropriate funds for the remaining balances of the PAMS Program, amend contract for technical support, issue solicitations and execute purchase orders for air monitoring equipment and one vehicle.

COMMITTEE: Administrative, November 12, 2021; Recommended for Approval

RECOMMENDED ACTIONS:

1. Recognize revenue, upon receipt, and appropriate funds in the amount of \$404,261 (\$390,000 was previously included in Salaries & Employee Benefits within the FY 2021-22 Budget) for the U.S. EPA Section 105 Grant for the 30th Year PAMS Program into Science & Technology Advancement's (STA) (Org 47) FYs 2021-22 and/or 2022-23 Budgets, Services and Supplies and Capital Outlays Major Objects, as set forth in Attachment 1.
2. Authorize the Executive Officer to amend the existing contract with Sonoma Technology, Inc. in an amount not to exceed \$60,000 to provide additional meteorological audit and monitoring technical support within the scope of the contract, as shown in Attachment 1.
3. Authorize the Procurement Manager, in accordance with South Coast AQMD's Procurement Policy and Procedure, to issue "Prior Bid, Last Price" purchase orders, or solicitation(s), as needed and, based on results, issue purchase orders for the equipment and services listed in Table 1;
4. Transfer up to \$42,000 from STA's FY 2021-22 Budget (Org 47) Services and Supplies Major Object to the Capital Outlays Major Object for the purchase of up to four Agilaire 8872 Data Loggers using FY 21 (29th Year PAMS) funding as shown in Table 1;

5. Authorize the substitution of one Gas Chromatograph equipped with Mass Spectrometer (GCMS) as approved in the FY 2021-22 Adopted Budget with an X-Ray Diffractometer (XRD) as listed in Table 2; and
6. Authorize the Procurement Manager, in accordance with South Coast AQMD's Procurement Policy and Procedure, to issue "Prior Bid, Last Price" purchase orders, or solicitation(s), as needed and, based on results, issue purchase orders for items listed in Table 2 as approved in the FY 2021-22 Adopted Budget.

Wayne Nastri
Executive Officer

MMM:JCL:RMB:AH:KD:ld

Background

PAMS Program

In February 1993, U.S. EPA promulgated the PAMS regulations for areas classified as serious, severe or extreme nonattainment. These regulations require that South Coast AQMD conduct monitoring for ozone precursors with enhanced monitoring equipment at multiple sites. The PAMS Program also funds upper air and surface-based meteorological measurements at several locations. Since the onset of the PAMS Program, U.S. EPA has annually allocated Section 105 Grant funds in support of this requirement.

FY 2021-22 Capital Outlays Approved in the Adopted Budget

In May 2021, the Board approved the Executive Officer's Proposed Goals and Priority Objectives and Proposed Budget for FY 2021-22. The FY 2021-22 Adopted Budget includes capital outlay funds for the replacement of air monitoring and laboratory equipment to support Priority Objective I, Ensuring efficient air monitoring and laboratory operations as recommended.

Proposal

PAMS Program

The estimated U.S. EPA Section 105 Grant for the 30th Year PAMS Program funding is \$794,261 based on the 29th Year PAMS Program funding levels. This action is to recognize revenue, upon receipt, and appropriate a portion of the estimated funds in the amount of \$404,261 (with the remainder of \$390,000 already included in Salaries and Employee Benefits within the FY 2021-22 Budget) into the Services and Supplies and Capital Outlays Major Objects in STA's FYs 2021-22 and/or 2022-23 Budgets, as set forth in Attachment 1. U.S. EPA staff concurs with this proposed allocation.

Proposed Purchases through an RFQ Process, "Prior Bid, Last Price" Solicitation or Cooperative Agreement

Gas Dilution Systems

U.S. EPA requires the measurement of criteria pollutants at multiple sites. Periodic calibration of air monitors is required to meet U.S. EPA quality control criteria. Gas dilution systems are necessary to provide a known concentration of gas standard required for the calibration of air monitoring equipment. The current gas dilution systems are greater than ten years old and no longer meet U.S. EPA quality control requirements. The replacement gas dilution systems meet U.S. EPA requirements as outlined in the most recent ozone Technical Assistance Document. The approximate cost for up to four gas dilution systems is \$88,000 (see Table 1). The purchase will be made by “Prior Bid, Last Price” or through a solicitation process, as needed, followed by issuance of a purchase order(s).

Agilaire 8872 Data Loggers

South Coast AQMD operates two dedicated PAMS sites and 27 ozone and NO₂ sites in support of the PAMS monitoring network. The monitoring site data loggers are greater than 15 years old and will no longer be supported by the manufacturer beyond the most recent Windows 10 upgrade. Data loggers are used for real time reporting of air quality data to U.S. EPA and CARB for dissemination as AQI values to the public. The technical specifications of the data loggers are proprietary and consistent with the existing South Coast AQMD air monitoring network. The approximate cost for up to four data loggers is \$42,000 and the equipment will be purchased through a sole source process as specified in Table 1.

Utility Vehicle

Vehicles assigned to field maintenance technicians have been driven over 150,000 miles in support of the PAMS monitoring network. Instruments require regular site visits for maintenance and quality control diagnostic tests. Staff proposes to purchase one utility vehicle, either BEV or PHEV, at an estimated cost of up to \$60,000 (see Table 1). The purchase will be made through a solicitation process or through a Cooperative Purchasing Agreement. Low emission vehicles are available from vendors through cooperative purchasing under the State of California, Department of General Services, Procurement Division, and Alternative Fueled Vehicles Contract 1-18-23-23A through H. A BEV or PHEV utility vehicle will be selected from the vendor on the list with the most competitive price for these types of vehicles.

Proposed Contract Amendment

Technical Support for Upper Air and Monitoring Site Meteorological Network

On October 5, 2018, the Board authorized the solicitation of bids and execution of a multi-year contract to provide technical support for surface and upper air meteorological measurements. The contract was awarded to Sonoma Technology, Inc. (STI) with amendments each year based on available PAMS funds and contractor performance. This action allocates funding from the U.S. EPA Section 105 30th Year PAMS Program grant, authorizing the Executive Officer to amend the STI contract to add funds in the amount of \$60,000 to bring the contract total to \$301,000.

Recommended Action 4 is to transfer up to \$42,000 from the Equipment Maintenance account in the Services and Supplies Major Object as listed in Attachment 2 of the

December 2020 Board letter to the Capital Outlays Major Object in STA's FY 2021-22 Budget (Org 47) for the purchase of up to four Agilaire 8872 Data Loggers using 29th year PAMS funding.

Replacement Air Monitoring and Laboratory Equipment

South Coast AQMD operates a network of 42 air monitoring stations which measure criteria pollutants to meet U.S. EPA requirements. As part of the FY 2021-22 budget process, replacement instruments for gaseous and particulate monitoring along with laboratory equipment were included in the capital outlay budget.

This action is to substitute one Gas Chromatograph equipped with Mass Spectrometer (GCMS) as approved in the FY 2021-22 Adopted Budget with an X-Ray Diffractometer (XRD) and authorize the Procurement Manager, in accordance with South Coast AQMD's Procurement Policy and Procedure, to issue "Prior Bid, Last Price" purchase orders, or solicitation(s), as needed and, based on results, issue purchase orders for items listed in Table 2 as approved in the FY 2021-22 Adopted Budget.

Sole Source Justification

Agilaire 8872 Data Loggers

Section VIII.B.3 of the South Coast AQMD's Procurement Policy and Procedure identifies four major provisions under which a sole source award may be justified when funded in whole or in part with federal funds. This request for sole source award is made under provision VIII.B.3.a. the item is available only from a single source. The data collection network involves the use of proprietary technology. Agilaire, LLC is the only manufacturer who produces data loggers which work with their AirVision® air quality data collection software. South Coast AQMD uses the Agilaire, LLC AirVision® software as the primary telemetry system for continuous measurements at all fixed air monitoring network sites.

Resource Impacts

U.S. EPA Section 105 Grant funding will support the operation of the PAMS Program including funding for Capital Outlays, Services and Supplies, and Salaries and Employee Benefits to meet necessary objectives of the Program.

Funding for the Capital Outlays listed in Table 2 is included in the FY 2021-22 Adopted Budget including the equipment substitution.

Table 1
Proposed PAMS Capital Outlay Expenditures for FYs 2021-22 and/or FY 2022-23

Description	Qty	Funding Source	Estimated Amount	Contracting Method
Gas Dilution Systems	Up to 4	PAMS 30th Year	\$88,000	'Prior Bid, Last Price' or Solicitation
Agilaire 8872 Data Loggers	Up to 4	PAMS 29th Year	\$42,000	Sole Source
Utility Vehicle	1	PAMS 30th Year	\$60,000	'Prior Bid, Last Price' or Solicitation
Total			\$190,000	

Table 2
FY 2021-22 Adopted Budget Capital Outlays Major Object

Description	Qty	Work Program Code	Estimated Amount	Contracting Method
Replacement Instruments for Gaseous and Particulate Measurements	21	44064	\$328,000	'Prior Bid, Last Price' or Solicitation
Gas Chromatograph with Mass Spectrometer (GCMS)	1*	44707	\$200,000	'Prior Bid, Last Price' or Solicitation
X-Ray Diffractometer (XRD)	1*	44450	\$200,000	'Prior Bid, Last Price' or Solicitation
Source-Level SCD for Speciated Sulfur	1	44715	\$85,000	'Prior Bid, Last Price' or Solicitation
Karl Fisher Auto Titrator With Analytical Balance and PC	2	44073	\$70,000	'Prior Bid, Last Price' or Solicitation
Automated Wilhelmy Plate Tensiometer	1	44707	\$35,000	'Prior Bid, Last Price' or Solicitation
Total			\$918,000	

*Two Gas Chromatograph with Mass Spectrometers were approved in the FY 2021-22 Adopted Budget. One unit will be substituted with an X-Ray Diffractometer upon Board approval.

Attachment

Proposed 30th Year PAMS Expenditures for FYs 2021-22 and/or 2022-23

Attachment 1

Proposed 30th Year PAMS Expenditures for FYs 2021-22 and/or FY 2022-23

Account Description	Account Number	Program Code	Estimated Expenditure
Services & Supplies Major Object:			
Rents & Leases Equipment	67300	47530	\$500
Rents & Leases Structure	67350	47530	8,000
Professional and Special Services: Data Management and Analysis	67450	47530	6,600
Professional and Special Services: Meteorological Audit and Monitoring Technical Support	67450	47530	60,000
Temp Agency Services	67460	47530	5,000
Demurrage Expenses	67550	47530	10,000
Maintenance of Equipment & Laboratory Instruments Service Agreement	67600	47530	50,000
Building Maintenance	67650	47530	9,000
Travel	67800	47530	5,000
Communications	67900	47530	2,000
Laboratory Supplies	68050	47530	69,161
Office Expense	68100	47530	5,000
Small Tools, Instruments, Equipment	68300	47530	20,000
Training	69500	47530	6,000
Total Services & Supplies Major Object:			\$256,261
Capital Outlay Major Object:			
Gas Dilution Systems (Up to 4)	77000	47530	\$88,000
Utility Vehicle	77000	47530	60,000
Total Capital Outlay Major Object:			\$148,000
Total			\$404,261

Note: \$390,000 was previously recognized in Salaries & Employee Benefits within the FY 2021-22 Budget.