

BOARD MEETING DATE: December 2, 2022

AGENDA NO. 7

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

SYNOPSIS: South Coast AQMD is expected to receive grant funds up to \$783,141 from U.S. EPA for the FY 2023 (31st Year) PAMS Program. These actions are to recognize revenue and appropriate funds for the PAMS Program in the Monitoring and Analysis FY 2022-23 and/or FY 2023-24 Budgets, issue solicitations and execute purchase orders for air monitoring equipment and one vehicle.

COMMITTEE: Administrative, November 10, 2022; Recommended for Approval

RECOMMENDED ACTIONS:

1. Recognize revenue, upon receipt, and appropriate from the Undesignated (Unassigned) Fund Balance the initial appropriation amount of \$230,000 upon December Board approval as set forth in Attachment 1. Upon receipt of the final award appropriate the remaining balance up to \$163,141 (\$390,000 was previously included in Salaries & Employee Benefits within the FY 2022-23 Budget) for the U.S. EPA Section 105 Grant for the 31st Year PAMS Program into the Monitoring and Analysis (M&A) (Org 47) FY 2022-23 and/or FY 2023-24 Budgets, Services and Supplies and Capital Outlays Major Objects, as set forth in Attachment 1; and
2. Authorize the Procurement Manager, in accordance with South Coast AQMD's Procurement Policy and Procedure, to issue "Prior Bid, Last Price" purchase orders, cooperative agreement, or solicitation(s) as needed and, based on results, issue purchase orders for the equipment and vehicle listed in Table 1.

Wayne Natri
Executive Officer

Background

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.

Proposal

The estimated U.S. EPA Section 105 Grant for the 31st Year PAMS Program funding is \$783,141 based on the 30th Year PAMS Program funding levels. This action is to recognize revenue, upon receipt, and appropriate estimated funds up to the amount of \$393,141 (with the remainder of \$390,000 already included in Salaries and Employee Benefits within the FY 2022-23 Budget) into the Services and Supplies and Capital Outlays Major Objects in M&A's FY 2022-23 and/or FY 2023-24 Budgets, as set forth in Attachment 1. To ensure that South Coast AQMD is able to continue operations prior to receiving the award, staff recommends a portion of the award (\$230,000) be appropriated to the Capital Outlay, Major Object in M&A's FY 2022-23 and/or FY 2023-24 Budgets. The balance will be appropriated upon receipt of the award.

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

Gas Dilution Systems

South Coast AQMD operates two dedicated PAMS sites and 27 ozone and nitrogen dioxide sites in support of the PAMS monitoring network. Periodic Quality Assurance (QA) audits of gas monitors is required to meet U.S. EPA quality assurance criteria. Gas dilution systems are necessary to provide a known concentration of gas standard required for the QA audit of air monitoring equipment. The current audit gas dilution systems are greater than ten years old and no longer meet U.S. EPA Quality Control (QC) requirements. The replacement gas dilution systems meet U.S. EPA requirements as outlined in the most recent ozone Technical Assistance Document. The estimated cost for up to two gas dilution systems is \$52,000 (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).

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 QC diagnostic tests. Staff proposes to purchase one zero emission vehicle which will require additional funding. Staff will return to the Board to purchase a zero emission vehicle (e.g. Rivian) if additional funds can be secured, and the vehicle can be procured before September 1, 2023.

If a zero emission vehicle cannot be procured before September 1, 2023, staff proposes to purchase the cleanest vehicle available (ULEV, BEV or PHEV) that can meet operational needs at an estimated cost of up to \$40,000 (see Table 1). The vehicle will be selected through a solicitation process or 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 1-22-23-23A through I.

Proposed Purchases through Sole Source

Agilaire 8872 Data Loggers

The data loggers used at South Coast AQMD's PAMS sites and at other air monitoring stations supporting the PAMS network 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 and also reporting AQI values to the public. The technical specifications of the data loggers are proprietary, consistent with the existing South Coast AQMD air monitoring network, and only available from one vendor. The estimated cost for up to four data loggers is \$48,000 and the equipment will be purchased through a sole source process as specified in Table 1.

Entech 7200A Cryogenic Pre-Concentrator with Auto Sampler

South Coast AQMD supports PAMS VOC measurements at two sites through the collection of time-integrated 24-hour samples for QC purposes. Analysis of these samples is performed in the laboratory using cryogenic pre-concentration followed with quantification by GC-FID. Pre-concentration of the samples is necessary to achieve adequate detection limits for the analytes of interest. One of the current PAMS cryogenic pre-concentrators is more than 15 years old, replacement parts are no longer available, and the software operating system is no longer supported. The technical specifications of the cryogenic pre-concentrator with auto sampler are proprietary and only available from one vendor. The estimated cost for a cryogenic pre-concentrator with auto sampler is \$90,000 and this equipment will be purchased through a sole source process as specified in Table 1.

Sole Source Justification

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 for the Agilaire 8872 Data Loggers and Entech 7200A Cryogenic Pre-Concentrator with Auto Sampler is made under provision VIII.B.3.a: The item is available only from a single source. Agilaire, LLC is the only manufacturer who produces data loggers which work with their AirVision® air quality data collection software with proprietary technology. South Coast AQMD uses the Agilaire, LLC AirVision® software as the primary telemetry system for continuous measurements at all fixed air monitoring network sites.

The Entech Cryogenic Pre-Concentrator uses a high-precision pressure differential reservoir technique that allows for very low sampling volumes. Entech is the only known source of a cryogenic pre-concentrator utilizing such a technique that can reliably obtain low sample volumes with high precision.

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 the necessary objectives of the Program.

**Table 1
Proposed 31st Year PAMS Capital Outlay Expenditures
for FY 2022-23 and/or FY 2023-24**

Description	Qty	Estimated Amount	Contracting Method
Gas Dilution Systems	Up to 2	\$52,000	‘Prior Bid, Last Price’ or Solicitation
Vehicle	1	\$40,000	Cooperative Agreement or Solicitation
Agilaire 8872 Data Loggers	Up to 4	\$48,000	Sole Source
Entech 7200A Cryogenic Pre-Concentrator with Auto Sampler	1	\$90,000	Sole Source
Total		\$230,000	

Attachment

Proposed 31st Year PAMS Expenditures for FY 2022-23 and/or FY 2023-24

Attachment

Proposed 31st Year PAMS Expenditures for FY 2022-23 and/or FY 2023-24

Account Description	Account Number	Program Code	Estimated Expenditure	Initial Appropriation
Services & Supplies Major Object:				
Rents & Leases Equipment	67300	47530	\$500	\$0
Professional and Special Services: Data Management and Analysis	67450	47530	\$6,600	\$0
Demurrage Expenses	67550	47530	\$10,000	\$0
Maintenance of Equipment & Laboratory Instruments Service Agreement	67600	47530	\$50,000	\$0
Travel	67800	47530	\$5,000	\$0
Communications	67900	47530	\$2,000	\$0
Laboratory Supplies	68050	47530	\$43,041	\$0
Office Expense	68100	47530	\$5,000	\$0
Small Tools, Instruments, Equipment	68300	47530	\$35,000	\$0
Training/Conf/Tuition/Board Ex	69500	47530	\$6,000	\$0
Total Services & Supplies Major Object:			\$163,141	\$0
Capital Outlay Major Object:				
Gas Dilution Systems (Up to 2)	77000	47530	\$52,000	\$52,000
Vehicle*	77000	47530	\$40,000	\$40,000
Agilaire 8872 Data Loggers (Up to 4)	77000	47530	\$48,000	\$48,000
Entech 7200A Cryogenic Pre-Concentrator with Auto Sampler	77000	47530	\$90,000	\$90,000
Total Capital Outlay Major Object:			\$230,000	\$230,000
Total			\$393,141	\$230,000

*Staff will seek additional funding for the purchase of a zero emission vehicle and return to the Board if the vehicle can be procured before September 1, 2023. If a zero emission vehicle cannot be procured by September 1, 2023, the cleanest vehicle available (ULEV, BEV or PHEV) that can meet operational needs will be purchased.

Note: \$390,000 was previously recognized in Salaries & Employee Benefits within the FY 2022-23 Budget. Upon receipt of the award, appropriate the remaining balance of PAMS Program Funds to M&A FY 2022-23 and/or FY 2023-24.