

BOARD MEETING DATE: April 1, 2022

AGENDA NO. 4

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

SYNOPSIS: South Coast AQMD is expected to receive grant funds up to \$703,945 from U.S. EPA for the PM2.5 Program and up to \$2,100,000 from the U.S. Government for the Enhanced Particulate Monitoring Program. These actions are to recognize revenue and appropriate funds for the PM2.5 and Enhanced Particulate Monitoring Programs, transfer up to \$350,000 between Major Objects in Science & Technology Advancement's FY 2022-23 Budget to realign expenditures for the Enhanced Particulate Monitoring Program and issue solicitations and purchase orders for air monitoring equipment and one vehicle.

COMMITTEE: Administrative, March 11, 2022; Recommended for Approval

RECOMMENDED ACTIONS:

1. Recognize revenue in the General Fund up to \$2,803,945 and appropriate funds up to \$662,539 upon receipt into the FYs 2021-22 and/or 2022-23 Budgets as set forth in Attachment 1 and further detailed in Attachments 2 and 3;
2. Transfer up to \$350,000 between Science & Technology Advancement's FY 2022-23 Budget, Salaries and Employee Benefits Major Object (Org 44) and Services & Supplies Major Object (Org 47), Temporary Agency Account, to realign expenditures, as needed, for the FY 2022-23 Enhanced Particulate Monitoring Program;
3. Authorize the Procurement Manager, in accordance with South Coast AQMD's Procurement Policy and Procedure, to issue purchase orders, based on a solicitation process, "Prior Bid, Last Price" or cooperative agreement for the following items as listed in Table 1:
 - a. One EBAC DD900 Dehumidifier not to exceed \$10,000;
 - b. One Hydrogen Generator not to exceed \$15,000;
 - c. One TriScroll Oilless Pump not to exceed \$7,000; and
 - d. One BEV, PHEV, or Hybrid vehicle based on availability in an amount not to exceed \$40,000.
4. Authorize the Procurement Manager, in accordance with South Coast AQMD's Procurement Policy and Procedure, to issue a sole source purchase order with Met

One Instruments, Inc. for up to three Met One PM2.5 Federal Equivalent Method Monitors not to exceed \$63,000 as listed in Table 2.

Wayne Natri
Executive Officer

MMM:JCL:RMB:ld:eq

Background

PM2.5 Program

A significant body of peer-reviewed scientific research, including studies conducted in Southern California, points to adverse impacts of particulate matter air pollution on both increased illness (morbidity) and increased death rates (mortality). Emission reductions of PM2.5 avoids premature deaths and result in fewer asthma-related emergency department visits, hospital admissions related to asthma, cardiovascular or respiratory conditions, and person-days of work and school absences.

Since 1998, U.S. EPA has provided funds under Section 103 for a comprehensive PM2.5 Air Monitoring Program. To date, there are 19 ambient monitoring stations in the South Coast Air Basin (Basin) operating 22 Federal Reference Method (FRM) PM2.5 monitors under U.S. EPA funding and 20 Federal Equivalent Method (FEM/Non-FEM) PM2.5 continuous monitors. In addition, U.S. EPA has supported the expansion of the network to collect ongoing PM2.5 mass and chemical speciation at several sites within the Basin. The chemical speciation of fine particulate matter supports the characterization of PM2.5 sources, air quality conditions and health impacts. South Coast AQMD is expected to receive up to \$703,945 from U.S. EPA for the annually funded PM2.5 Program. Since 1998, U.S. EPA has provided funds under Section 103 for a comprehensive PM2.5 Air Monitoring Program. To date, there are 19 ambient monitoring stations in the South Coast Air Basin (Basin) operating 22 Federal Reference Method (FRM) PM2.5 monitors under U.S. EPA funding and 20 Federal Equivalent Method (FEM/Non-FEM) PM2.5 continuous monitors. In addition, U.S. EPA has supported the expansion of the network to collect ongoing PM2.5 mass and chemical speciation at several sites within the Basin. The chemical speciation of fine particulate matter supports the characterization of PM2.5 sources, air quality conditions and health impacts. South Coast AQMD is expected to receive up to \$703,945 from U.S. EPA for the annually funded PM2.5 Program.

Enhanced Particulate Monitoring Program

South Coast AQMD has been providing enhanced particulate monitoring support as part of a national monitoring program since 2003. Sample collection began in February 2003 and will continue for the foreseeable future. South Coast AQMD is expected to receive

up to \$2,100,000 from the U.S. Government for the annually funded Enhanced Particulate Monitoring Program.

Proposal

The federal revenue to be recognized and FYs 2021-22 and/or 2022-23 appropriations are summarized in Attachment 1 and further described in Attachments 2 and 3.

PM2.5 Program (FYs 2021-22 and/or 2022-23)

U.S. EPA is expected to provide Section 103 Grant funding in an amount up to \$703,945 for the continuation of the PM2.5 Program through March 31, 2023. Revenue for this grant in the amount of \$461,000 for Salaries and Benefits has already been included in the budget. This action is to recognize the remaining revenue up to \$242,945 into the FYs 2021-22 and FY 2022-23 Budgets and appropriate up to \$242,945 into Science & Technology Advancement's FYs 2021-22 and/or 2022-23 Budgets as set forth in Attachment 2.

Enhanced Particulate Monitoring Program (FYs 2021-22 and/or 2022-23)

South Coast AQMD is expected to receive funding from the U.S. Government for the ongoing Enhanced Particulate Monitoring Program through April 30, 2023, in an amount up to \$2,100,000. This action is to recognize revenue up to \$419,594 into the FYs 2021-22 and or 2022-23 Budgets (\$1,680,406 for Salaries, Benefits, and indirect costs was already included in the FY 2021-22 and/or 2022-23 Budget) and appropriate up to \$419,594 into Science & Technology Advancement's FYs 2021-22 and/or 2022-23 Budget, Services & Supplies and Capital Outlays Major Objects, as set forth in Attachment 3.

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

EBAC DD900 Dehumidifier

The current EBAC DD700 dehumidification unit is not keeping the PM2.5 humidity and temperature-controlled room within U.S. EPA specifications during humid weather conditions. Replacing the DD700 with the higher capacity DD900 dehumidifier will maintain the humidity and temperature-controlled room within U.S. EPA specifications for the PM2.5 FRM program. The estimated cost of a dehumidifier is \$10,000 (see Table 1). The purchase will be made through a solicitation process followed by issuance of a purchase order(s).

Hydrogen Generator

The U.S. EPA Section 103 PM2.5 Grant award includes one-time funding for the purchase of one hydrogen generator. The current hydrogen generator is more than 15 years old and needs replacement. The estimated cost of a hydrogen generator is \$15,000

(see Table 1). The purchase will be made through a solicitation process followed by issuance of a purchase order(s).

TriScroll Oilless Pump

The U.S. EPA Section 103 PM2.5 Grant award includes one-time funding for the purchase of one TriScroll oilless pump. The current TriScroll oilless pump is more than 15 years old and needs replacement. The estimated cost of a TriScroll oilless pump is \$7,000 (see Table 1). The purchase will be made through a solicitation process followed by issuance of a purchase order(s).

BEV, PHEV or Hybrid Vehicle

At the outset of the Enhanced Particulate Monitoring Program over 15 years ago, several dedicated vehicles were purchased to meet the mileage intensive needs of the program. Several of these original vehicles have more than 200,000 miles and are expected to be surplus. The U.S. Department of Homeland Security, which is the funding agency for this program, concurs that replacing one of these vehicles is appropriate. Staff proposes replacement of one vehicle with a BEV, PHEV or Hybrid based upon availability, through an RFQ process, “Prior Bid, Last Price,” or 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. The cost of the vehicle will not exceed \$40,000 (see Table 2).

Proposed Purchases through Sole Source Purchase Orders

Met One PM2.5 Continuous FEM Monitor

The U.S. EPA Section 103 PM2.5 Grant award includes one-time funding for the purchase of up to three Met One PM2.5 FEM monitors. The Met One PM2.5 FEM monitor is the only commercially available FEM monitor that would allow South Coast AQMD to satisfy the U.S. EPA collocation requirement, which specifies that new FEM monitors added to the network must use the same monitor/method code as those that are already in operation within the network. The cost of the monitors will not exceed \$63,000 (see Table 2).

Sole Source Justification

The Met One, Inc. PM2.5 FEM Monitor is the only manufacturer of a real-time, continuous PM2.5 mass monitor that employs a unique “in-situ” sampling technique that would allow South Coast AQMD to satisfy U.S. EPA collocation requirements, which determine that new FEM monitors added to the network must use the same sampler/method code as those that are already in operation with the network. Sole Source Justification Section VIII.B.3 of South Coast AQMD’s Procurement Policy and Procedure identifies four major provisions under which a sole source award funded in whole or in part with federal funds, may be justified. Specifically, this request for sole

source award is made under provision VIII.B.3.a. the item is available only from a single source.

Resource Impacts

U.S. Government funding will support the Enhanced Particulate Monitoring Program.

U.S. EPA Section 103 Grant funding will support the continuation of the PM2.5 Monitoring Program, including equipment and services and supplies necessary to meet the objectives of the PM2.5 Monitoring Program.

Table 1
Proposed Purchase through an RFQ Process, ‘Prior Bid, Last Price’, or
Cooperative Agreement Purchase Order

Description	Qty	Funding Source	Estimated Amount
EBAC DD9900 Dehumidifier	1	PM2.5 FY 2021-22 and/or 2022-23	\$10,000
Hydrogen Generator	1	PM2.5 FY 2021-22 and/or 2022-23	\$15,000
TriScroll Oilless Pump	1	PM2.5 FY 2021-22 and/or 2022-23	\$7,000
BEV, PHEV or Hybrid Vehicle	1	U.S. Government FY 2021-22 and/or 2022-23	\$40,000
Total			\$72,000

Table 2
Proposed Purchase through Sole Source Purchase Order

Description	Qty	Funding Source	Estimated Amount
Met One PM2.5 FEM Monitor	Up to 3	PM2.5 FY 2021-22 and/or 2022-23	\$63,000
Total			\$63,000

Attachments:

1. Proposed Federal Revenues and Expenditures for FYs 2021-22 and/or 2022-23
2. Proposed PM2.5 Expenditures for FYs 2021-22 and/or 2022-23
3. Proposed Enhanced Particulate Monitoring Expenditures for FYs 2021-22 and/or 2022-23

Attachment 1

Proposed Federal Revenues and Expenditures for FYs 2021-22 and/or 2022-23

Funding Agency	Program Name	Proposed Revenues	Proposed Expenditures*	Detailed Appropriations
EPA-Section 103	PM2.5 Program	\$703,945	\$242,945	Attachment 2
U.S. Govt.	Enhanced Particulate Monitoring	\$2,100,000	\$419,594	Attachment 3
		\$2,803,945	\$662,539	

*The difference between the proposed revenue and expenditure amounts is due to Salaries, Benefits, and indirect costs already included in the FYs 2021-22 and 2022-23 Budgets.

Attachment 2

Proposed PM2.5 Expenditures for FYs 2021-22 and/or 2022-23

Account Description	Account Number	Program Code	Estimated Expenditures*
Services & Supplies Major Object:			
Rents & Leases Structure	67300	47500	\$8,000
Maintenance of Equipment	67600	47500	57,500
Building Maintenance Operation	67650	47500	1,000
Travel	67800	47500	6,000
Laboratory Supplies	68050	47500	62,500
Office Expense	68100	47500	2,945
Small Tools, Instruments, Equipment	68300	47500	10,000
Total Services & Supplies Major Object:			\$147,945
Capital Outlay Major Object:			
EBAC DD9900 Dehumidifier	77000	47500	10,000
Hydrogen Generator	77000	47500	15,000
TriScroll Oilless Pump	77000	47500	7,000
MET One PM2.5 FEM Monitor (up to 3)	77000	47500	\$63,000
Total Capital Outlay Major Object:			\$95,000
Total Appropriations			\$242,945

Note: Salaries and Benefits are already included in the FYs 2021-22 and 2022-23 Budgets.

*Funds not expended by June 30 2022, will be carried over to FY 2022-23

Attachment 3

Proposed Enhanced Particulate Monitoring Expenditures for FYs 2021-22 and/or FY 2022-23

Account Description	Account Number	Program Code	Estimated Expenditures*
Salaries & Employee Benefits Major Object:			
Overtime	52000	44505	\$41,000
Total Salaries & Employee Benefits Major Object:			\$41,000
Services & Supplies Major Object:			
Temporary Agency Services	67460	47505	\$239,994
Maintenance of Equipment	67600	47505	1,000
Building Maintenance Operation	67650	47505	400
Auto Mileage	67700	47505	94,000
Clothing and Safety Equipment	68000	47505	2,000
Office Expense	68100	47505	200
Small Tools, Instruments, Equipment	68300	47505	1,000
Total Services & Supplies Major Object:			\$338,594
Capital Outlay Major Object:			
Vehicle (1)	77000	47505	40,000
Total Capital Outlay Major Object:			\$40,000
Total Appropriations			\$419,594

Note: Salaries, Benefits, and Indirect Costs (excluding overtime) are included in the FY 2021-22 and/or 2022-23 Budget.

* Funds not expended by June 30, 2022, will be carried over to FY 2022-23.