

BOARD MEETING DATE: July 7, 2017

AGENDA NO. 6

PROPOSAL: Recognize Revenue and Transfer and Appropriate Funds for Air Monitoring and Emergency Response Programs, and Issue Solicitations and Purchase Orders for Air Monitoring and Laboratory Equipment and Vehicles

SYNOPSIS: SCAQMD is expected to receive up to \$2,900,000 in U.S. Government Enhanced Particulate Monitoring Program funds for FY 2017-18. In addition, U.S. EPA is expected to award up to \$246,288 for the NATTS Program for FY 2017-18. These actions are to: 1) recognize revenue and appropriate funds for the Enhanced Particulate Monitoring and NATTS Programs; 2) recognize revenue and appropriate funding for remaining balances of the NATTS, PAMS, PM2.5 and Near-Road NO2 Programs; 3) transfer and appropriate funds for the Emergency Response Program; and 4) issue solicitations and purchase orders for air monitoring and laboratory equipment and vehicles.

COMMITTEE: Administrative Committee, June 9, 2017; Recommended for Approval

RECOMMENDED ACTIONS:

1. Recognize revenue and appropriate funds up to \$1,683,272, upon receipt, into the FY 2017-18 Budget as set forth in Attachment 1 (and further detailed in Attachments 2-8).
2. Transfer and appropriate funds in an amount not to exceed \$270,000 from the Rule 1173 Mitigation Fee Special Revenue Fund (44) to Science and Technology Advancement's FY 2017-18 Budget (Org 44), Capital Outlays Major Object, for equipment in support of the Emergency Response Program.
3. Issue solicitation(s), in accordance with SCAQMD Procurement Policy and Procedure, for four vehicles as listed in Table 1.
4. Authorize the Executive Officer or Procurement Manager, in accordance with SCAQMD Procurement Policy and Procedure, to issue:
 - a) Purchase order(s) based on the results of solicitation(s) for four vehicles in an amount not to exceed \$200,000 as listed in Table 1; and

- b) Sole source purchase order to Inficon in an amount not to exceed \$270,000 for laboratory equipment as listed in Table 2.

Wayne Nastri
Executive Officer

MMM:JCL:AP:AK

Background

Enhanced Particulate Monitoring Program

SCAQMD has been providing enhanced particulate monitoring support as part of a national monitoring program since 2003. Sample collection began in early February 2003 and will continue for the foreseeable future.

NATTS Program

There are currently 188 hazardous air pollutants (HAPs) or air toxics regulated under the Clean Air Act that are associated with a wide variety of adverse health effects, including cancer and neurological effects. U.S. EPA Government Performance Results Act commitments specify a goal of reducing air toxics emissions by 75% from 1993 levels to significantly reduce health risks. The NATTS Program was developed to fulfill the need for long-term national HAP monitoring data. In 2007, U.S. EPA expanded the NATTS Program and awarded Section 103 funds to conduct monitoring for toxic air contaminants at two existing SCAQMD monitoring sites, Central Los Angeles and Rubidoux. The air toxics data serves as a continuum between past and future air toxic measurement programs, such as MATES, and allows for more accurate evaluation of toxic trends on a regional basis.

PAMS Program

In February 1993, the U.S. EPA promulgated the PAMS regulations for areas classified as serious, severe or extreme non-attainment for ozone. These regulations require SCAQMD to conduct monitoring for ozone precursors with enhanced monitoring equipment at multiple sites. The PAMS Program is also funding the meteorological upper air profilers sited at LAX and Ontario airports, Moreno Valley in Riverside County, Irvine in Orange County and Whiteman Airport in the San Fernando Valley. Since the onset of the PAMS Program, U.S. EPA has annually allocated Section 105 supplemental grant funds in support of this requirement.

PM2.5 Program

Since 1998, U.S. EPA has provided funds under a Section 103 Grant for a comprehensive PM2.5 Air Monitoring Program. To date, there are 26 ambient SCAQMD monitoring stations operating 21 Federal Reference Method (FRM) PM2.5 monitors under U.S. EPA funding and 17 Federal Equivalent Method (FEM) PM2.5

continuous monitors. In addition, U.S. EPA has supported the expansion of the network to collect ongoing PM_{2.5} mass and chemical speciation at several sites within the South Coast Air Basin. This augmentation substantially adds to the fine particulate data which will help in the characterization of PM_{2.5} sources, current air quality conditions and health impacts.

Near-Road NO₂ Monitoring Program

On February 9, 2010, U.S. EPA promulgated new monitoring requirements for the nitrogen dioxide (NO₂) monitoring network in support of newly revised 1-hour NO₂ National Ambient Air Quality Standards (NAAQS) and the retained annual NAAQS. The new monitoring requirements stipulated that state and local air monitoring agencies were required to install near-road NO₂ monitoring stations at locations where peak hourly NO₂ concentrations are expected to occur as well as to consider traffic volumes, fleet mix, roadway design, traffic congestion patterns, local terrain or topography and meteorology in determining where a required near-road NO₂ monitor should be placed. In addition to those required considerations, there are other factors that impact the selection and implementation of a near-road monitoring station including satisfying siting criteria, site logistics and population exposure.

Emergency Response Program

At the request of local police, fire and health departments, SCAQMD staff responds to emergencies such as fires, explosions, toxic spills and toxic gas releases at industrial and commercial facilities and other sources. Staff have been supporting the fire and police department and other public safety agencies in responding to emergency response situations by conducting measurements of air toxics and collecting air samples for laboratory analysis. SCAQMD also dispatches its Emergency Response Team to events with significant public air quality impacts. The SCAQMD's laboratory can test for a wide range of air pollutants such as hydrocarbons, particulates, asbestos, metals and specific carcinogens (i.e., benzene). In 2003, as part of a Department of Defense contract, the SCAQMD purchased four portable gas chromatograph-mass spectrometers along with their associated equipment, and these instruments have proven to be a valuable component in SCAQMD's Emergency Response Program. Unfortunately, the instruments are no longer supported by the manufacturer, and parts are not available. Replacement units are needed to maintain field operations and data integration capabilities with SCAQMD software platforms. This item was previously approved by the Board in July 2015 for purchase through an RFQ process, but the initial RFQ did not receive any viable responses. The RFQ was re-released, two responses were received and staff moved forward with the lowest cost bid. Regrettably, the units failed to meet the technical specifications listed in the RFQ requirements and had to be returned to the vendor.

Proposal

The revenue to be recognized, funds to be transferred and FY 2017-18 appropriations are summarized in Attachment 1. Specific details are below (and in Attachments 2-8).

Enhanced Particulate Monitoring Program (FY 2017-18)

The SCAQMD is expected to receive funding from the U.S. Government for the ongoing Enhanced Particulate Monitoring Program for FY 2017-18 in an amount up to \$2,900,000. Revenue for this grant in the amount of \$2,267,325 has already been included in the FY 2017-18 Budget. This action is to recognize, upon receipt, the remaining revenue up to \$632,675 into the FY 2017-18 Budget and appropriate up to \$632,675 to Science and Technology Advancement's FY 2017-18 Budget, as set forth in Attachment 2.

NATTS Program (FY 2017-18)

The U.S. EPA is expected to provide Section 103 Grant funding in an amount up to \$246,288 to continue the NATTS Program for the July 1, 2017 to June 30, 2018 period. Revenue for this grant in the amount of \$83,000 has already been included in the FY 2017-18 Budget. This action is to recognize, upon receipt, the remaining revenue up to \$163,288 into the FY 2017-18 Budget and appropriate up to \$163,288 to Science and Technology Advancement's FY 2017-18 Budget, as set forth in Attachment 3. The U.S. EPA concurs with staff's proposed allocation.

NATTS Program (FY 2016-17)

Any remaining balance of FY 2016-17 NATTS funding must be reallocated in FY 2017-18. This action is to recognize the estimated remaining balance up to \$8,956 into the FY 2017-18 Budget and appropriate up to \$8,956 to Science and Technology Advancement's FY 2017-18 Budget, as set forth in Attachment 4. The U.S. EPA concurs with staff's proposed allocation.

PM2.5 Program (FY 2017-18)

The U.S. EPA is expected to provide Section 103 Grant funding in an amount up to \$692,165 to continue the PM2.5 Program for the April 1, 2017 to March 31, 2018 period. (A partial grant of \$415,299 has already been received by the U.S. EPA.) Revenue for this grant in the amount of \$461,000 has already been included in the FY 2017-18 Budget. This action is to recognize, upon receipt, the remaining revenue up to \$231,165 into the FY 2017-18 Budget and appropriate up to \$231,165 to Science and Technology Advancement's FY 2017-18 Budget, as set forth in Attachment 5. The U.S. EPA concurs with staff's proposed allocation.

PM2.5 Program (FY 2016-17)

The remaining balance of FY 2016-17 PM2.5 funding must be reallocated in FY 2017-18. This action is to recognize the remaining balance up to \$17,680 into the FY 2017-18 Budget and appropriate up to \$17,680 to Science and Technology Advancement's

FY 2017-18 Budget as set forth in Attachment 6. The U.S. EPA concurs with staff's proposed allocation.

PAMS Program (FY 2016-17)

As in previous years, there is a need to reallocate PAMS funding in the final quarter of the federal fiscal year ending September 30, 2017. This action is to recognize the remaining balance up to \$598,813 into the FY 2017-18 Budget and appropriate up to \$598,813 to Science and Technology Advancement's FY 2017-18 Budget, as set forth in Attachment 7. The U.S. EPA concurs with staff's proposed reallocation.

Near-Road NO2 Monitoring Program (FY 2016-17)

U.S. EPA has provided funding in Section 103 Grant funds for the implementation of the Near-Road NO2 Monitoring Program. There is a need to reallocate the estimated remaining balance of Section 103 Grant funding in FY 2017-18. This action is to recognize the remaining balance up to \$30,695 into the FY 2017-18 Budget and appropriate up to \$30,695 to Science and Technology Advancement's FY 2017-18 Budget, as set forth in Attachment 8. The U.S. EPA concurs with staff's proposed allocation.

Emergency Response Program

Because the previously approved procurement process spanned multiple fiscal years and the funding appropriation was authorized in FY 2015-16, the authorized funding was returned to the General Fund. This action is to transfer and appropriate funding in an amount not to exceed \$270,000 from the Rule 1173 Mitigation Fee Special Revenue Fund (44) to Science and Technology Advancement's FY 2017-18 Budget (Org 44), Capital Outlays Major Object, for the sole source purchase of two Hapsite portable gas chromatograph-mass spectrometers and associated equipment in support of SCAQMD's Emergency Response Program.

Proposed Purchase Order(s) through Solicitation Process

At the outset of the Enhanced Particulate Monitoring Program over eight years ago, several dedicated vehicles were purchased to meet the mileage-intensive needs of the Program. Several of these original vehicles now have over 140,000 miles, and the U.S. Department of Homeland Security, which is the funding agency, concurs with SCAQMD staff that replacing one or more of these vehicles is appropriate.

With an aging fleet of vehicles, staff has identified the need to replace the older high-mileage vehicles with new low-emission vehicles. These vehicles are essential for staff to operate, maintain, calibrate and repair air monitoring equipment for air monitoring stations supporting the NATTS and PAMS programs.

The Procurement Manager shall pursue the purchase of four vehicles with the lowest possible emissions that will satisfy the operational needs of the monitoring programs for

which they are intended (see Table 1). Quotes will be solicited through formal bids, in accordance with SCAQMD Procurement Policy and Procedure, then purchase orders will be issued accordingly. The cost of each vehicle is not expected to exceed \$50,000.

Proposed Purchase through Sole Source Purchase Order

Because of the previously mentioned inability to purchase equipment through a solicitation process that meets the technical specifications of the Emergency Response Program, it has been determined that the equipment can only be purchased through a single source. The Procurement Manager will issue a sole source purchase order to Inficon in an amount not to exceed \$270,000 to purchase two Hapsite portable gas chromatograph-mass spectrometers and their associated equipment (see Table 2).

Outreach

In accordance with SCAQMD's Procurement Policy and Procedure, a public notice advertising the solicitation(s) and inviting bids will be published in the Los Angeles Times, the Orange County Register, the San Bernardino Sun, and Riverside County's Press Enterprise newspapers to leverage the most cost-effective method of outreach to the South Coast Basin.

Additionally, potential bidders may be notified utilizing SCAQMD's own electronic listing of certified minority vendors. Notice of the solicitations will be emailed to the Black and Latino Legislative Caucuses and various minority chambers of commerce and business associations, and placed on the Internet at SCAQMD's website (<http://www.aqmd.gov>) where it can be viewed by making the selection "Grants & Bids."

Sole Source Justification

Section VIII, B.2 of the Procurement Policy and Procedure identifies four major provisions under which a sole source award may be justified for procurement. The request for sole source purchase of the two Hapsite portable gas chromatograph-mass spectrometers and their associated equipment is made under Sections B.2.c of the Procurement Policy and Procedure: The items are only available from a single source and there is currently only one vendor, Inficon, which can provide this specific portable instrument.

Resource Impacts

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

U.S. EPA Section 103 Grant funding will support the continuation of the NATTS, Near-Road NO₂ and PM_{2.5} monitoring programs, including equipment, contracts, and supplies necessary to meet the objectives of the Program.

U.S. EPA Section 105 Grant funding supports the continuation of the PAMS Program, including vehicles, contracts, temporary services and supplies necessary to meet the objectives of the Program.

The Rule 1173 Mitigation Fee Special Revenue Fund (44) has sufficient funds to support SCAQMD's Emergency Response Program, providing for the purchase of equipment to meet the objectives of the program.

In summary, up to \$1,683,272 in revenue will be recognized into the FY 2017-18 Budget and appropriated to Science and Technology Advancement's FY 2017-18 Budget, as set forth in Attachment 1 (and further detailed in Attachments 2-8).

Table 1
Proposed Purchase Order(s) through Solicitation Process

Description	Qty	Funding Source	Estimated Cost
Vehicle	1	U.S. Government 2017-18	\$50,000
Vehicle	1	NATTS FY 2017-18	\$50,000
Vehicle	2	PAMS FY 2016-17	\$100,000
Total Proposed Purchase Order(s) through Solicitation Process			Not to Exceed \$200,000

Table 2
Proposed Purchase through Sole Source Purchase Order

Description	Qty	Funding Source	Estimated Cost
Hapsite portable gas chromatograph-mass spectrometers and associated equipment	2	Fund 44 (Rule 1173 Mitigation Fees)	\$270,000
Total Proposed Purchase through Sole Source Purchase Order			Not to Exceed \$270,000

Attachments

1. Proposed Revenues and Expenditures for FY 2017-18
2. Proposed Enhanced Particulate Monitoring Program Expenditures for FY 2017-18
3. Proposed NATTS Expenditures for FY 2017-18
4. Proposed NATTS Expenditures for FY 2017-18 (Remaining FY 2016-17 Balance)
5. Proposed PM2.5 Expenditures for FY 2017-18
6. Proposed PM2.5 Expenditures for FY 2017-18 (Remaining FY 2016-17 Balance)
7. Proposed 25th Year PAMS Expenditures for FY 2017-18 (Remaining FY 2016-17 Balance)
8. Proposed Near-Road NO2 Monitoring Expenditures for FY 2017-18 (Remaining FY 2016-17 Balance)

Attachment 1
Proposed Revenues and Expenditures for FY 2017-18

Program Year	Funding Agency	Program Name	Revenues	Expenditures	Detailed Appropriations
FY 2017-18	U.S. Govt.	Enhanced Particulate Monitoring	632,675	632,675	Attachment 2
FY 2017-18	EPA-Section 103	National Air Toxics Trends Stations (NATTS)	163,288	163,288	Attachment 3
FY 2016-17*	EPA-Section 103	National Air Toxics Trends Stations (NATTS)	8,956	8,956	Attachment 4
FY 2017-18	EPA-Section 103	PM 2.5 Monitoring Network	231,165	231,165	Attachment 5
FY 2016-17*	EPA-Section 103	PM 2.5 Monitoring Network	17,680	17,680	Attachment 6
FY 2016-17*	EPA-Section 105	Photochemical Assessment Monitoring Stations (PAMS)	598,813	598,813	Attachment 7
FY 2016-17*	EPA-Section 103	Near-Road NO2 Monitoring	30,695	30,695	Attachment 8
			1,683,272	1,683,272	

* Recognize revenue and appropriate funds representing the remaining balance from FY 2016-17.

Attachment 2
Proposed Enhanced Particulate Monitoring Expenditures for FY 2017-18

Account Description	Account Number	Program Code	Appropriation not to Exceed
*Salaries & Employee Benefits Major Object:			
Overtime	52000	44505	\$ 106,136
Total Salaries & Employee Benefits Major Object			\$ 106,136
Services & Supplies Major Object:			
Professional and Specialized Services	67450	47505	\$ 105,000
Temp Agency Services	67460	47505	96,912
Maintenance of Equipment	67600	47505	500
Building Maintenance	67650	47505	106,000
Auto Mileage	67700	47505	91,972
Travel	67800	47505	3,000
Communications	67900	47505	3,960
Clothing	68000	47505	875
Office Expense	68100	47505	1,820
Small Tools	68300	47505	45,500
Taxes, License, Fees	69600	47505	21,000
Total Services & Supplies			\$ 476,539
Capital Outlay Major Object:			
Vehicle (1)	77000	47505	\$ 50,000
Total Capital Outlay Major Object:			\$ 50,000
FY 2017-18 Appropriations			\$ 632,675

* Salaries, Benefits and Indirect Costs (excluding Overtime) are already included in the adopted FY 2017-18 Budget; this revenue/appropriation is for the excluded overtime.

Attachment 3
Proposed NATTS Expenditures for FY 2017-18

Account Description	Account Number	Program Code	Estimated Expenditures
Services & Supplies Major Object:			
Professional and Specialized Services	67450	47468	\$ 1,000
Maintenance of Equipment	67600	47468	45,000
Travel	67800	47468	6,000
Laboratory Supplies	68050	47468	54,288
Office Expense	68100	47468	1,000
Small Tools	68300	47468	6,000
Total Services & Supplies			\$ 113,288
Capital Outlay Major Object:			
Vehicle (1)	77000	47468	\$ 50,000
Total Capital Outlay Major Object:			\$ 50,000
FY 2017-18 Appropriations			\$ 163,288

Note: Salaries, Benefits and Indirect Costs are already included in the adopted FY 2017-18 Budget.

Attachment 4
Proposed NATTS Expenditures for FY 2017-18 (Remaining FY 2016-17 Balance)

Account Description	Account Number	Program Code	Initial Appropriation (a)	Appropriations not to Exceed
Services & Supplies Major Object:				
Maintenance of Equipment	67600	47468	\$ 4,500	\$ 4,500
Laboratory Supplies	68050	47468	4,456	4,456
Total Services & Supplies			\$ 8,956	\$ 8,956
FY 2017-18 Appropriations			\$ 8,956	\$ 8,956

(a) This is the estimated amount for the first quarter of FY 2017-18. The remaining amount will be appropriated upon reconciliation of FY 2016-17 expenditures.

Attachment 5
Proposed PM 2.5 Expenditures for FY 2017-18

Account Description	Account Number	Program Code	Estimated Expenditures
Services & Supplies Major Object:			
Rents and Leases Structure	67350	47500	\$ 4,500
Professional and Specialized Services	67450	47500	11,000
Maintenance of Equipment	67600	47500	55,405
Building Maintenance	67650	47500	5,000
Travel	67800	47500	2,000
Laboratory Supplies	68050	47500	32,010
Office Expense	68100	47500	5,000
Small Tools	68300	47500	4,000
Total Services & Supplies			\$ 118,915
Capital Outlay Major Object:			
Teledyne T640 PM 2.5 Monitors (2)	77000	47500	\$ 50,000
Thermo FRM 2025i Particulate Sampler (3)	77000	47500	62,250
Total Capital Outlay Major Object:			\$ 112,250
FY 2017-18 Appropriations			\$ 231,165

Note: Salaries and Benefits are already included in the adopted FY 2017-18 Budget.

Attachment 6
Proposed PM 2.5 Expenditures for FY 2017-18 (Remaining FY 2016-17 Balance)

Account Description	Account Number	Program Code	Initial Appropriation (a)	Appropriations not to Exceed
Services & Supplies Major Object:				
Maintenance of Equipment	67600	47500	\$ -	\$ 7,000
Travel	67800	47500	6,000	10,680
Total Services & Supplies			\$ 6,000	\$ 17,680
FY 2017-18 Appropriations			\$ 6,000	\$ 17,680

(a) This is the estimated amount for the first quarter of FY 2016-17. The remaining amount will be appropriated upon reconciliation of FY 2015-16 expenditures.

Attachment 7

Proposed 25th Year PAMS Expenditures for FY 2017-18 (Remaining FY 2016-17 Balance)

Account Description	Account Number	Program Code	Initial Appropriation (a)	Appropriations not to Exceed
Services & Supplies Major Object:				
Rents & Leases Structure	67350	26350	\$ 9,000	\$ 20,000
Professional and Specialized Services: Station Upgrades	67450	47530	105,000	140,000
Temp Agency Services	67460	47530	8,000	25,000
Maintenance of Equipment	67600	47530	16,000	110,000
Maintenance of Equipment	67600	26530	9,000	35,000
Building Maintenance	67650	47530	9,000	50,000
Building Maintenance	67650	26530	9,000	10,000
Communications	67900	26530	9,000	9,000
Laboratory Supplies	68050	47530	13,000	57,813
Office Expense	68100	47530	2,000	9,000
Office Expense	68100	26530	2,000	4,000
Small Tools	68300	47530	10,000	20,000
Small Tools	68300	26530	4,000	9,000
Miscellaneous	69500	26530	-	-
Total Services & Supplies			\$ 205,000	\$ 498,813
Capital Outlay Major Object:				
Vehicle (2)	77000	47530	100,000	100,000
Total Capital Outlay Major Object:			\$ 100,000	\$ 100,000
FY 2017-18 Appropriations			\$ 305,000	\$ 598,813

(a) This is the estimated amount for the first quarter of FY 2017-18. The remaining amount will be appropriated upon reconciliation of FY 2016-17 expenditures.

Attachment 8

Proposed Near-Road NO2 Monitoring Expenditures for FY 2017-18 (Remaining FY 2016-17 Balance)

Account Description	Account Number	Program Code	Initial Appropriation (a)	Appropriations not to Exceed
Services & Supplies Major Object:				
Professional and Specialized Services	67450	47469	\$ 4,500	\$ 18,000
Maintenance of Equipment	67600	47469	1,500	7,695
Travel	67800	47469		500
Utilities	67850	47469		500
Laboratory Supplies	68050	47469	500	1,000
Small Tools	68300	47469	-	3,000
Total Services & Supplies			\$ 6,500	\$ 30,695
FY 2017-18 Appropriations			\$ 6,500	\$ 30,695

(a) This is the estimated amount for the first quarter of FY 2017-18. The remaining amount will be appropriated upon reconciliation of FY 2016-17 expenditures.