

BOARD MEETING DATE: July 10, 2015

AGENDA NO. 12

PROPOSAL: Recognize Revenue and Appropriate Funds for Enhanced Particulate Monitoring Programs, NATTS, PAMS, PM2.5, Near-Road NO2 and AQ-SPEC Programs; Issue RFQs and Purchase Orders for Air Monitoring Equipment and CNG Vehicles

SYNOPSIS: SCAQMD has applied for \$2,836,157 in U.S. Government Enhanced Particulate Monitoring Program funds for FY 2015-16. In addition, U.S. EPA has allocated \$242,318 for the NATTS Program for FY 2015-16. 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, Near-Road NO2 and AQ-SPEC Programs; and 3) issue RFQs and purchase orders for air monitoring equipment and CNG vehicles.

COMMITTEE: Administrative, June 12, 2015; Recommended for Approval

RECOMMENDED ACTIONS:

1. Recognize revenue and appropriate funds, upon receipt, into the FY 2015-16 Budget as set forth in Attachment 1;
2. Issue RFQs, in accordance with SCAQMD Procurement Policy and Procedure, for air monitoring equipment listed in Table 1 and described in this letter;
3. Authorize the Procurement Manager, in accordance with SCAQMD Procurement Policy and Procedure, to issue:
 - a) Purchase orders, based on the results of RFQs, for air monitoring equipment in an amount not to exceed \$321,000 as listed in Table 1 and described in this letter; and
 - b) Sole source purchase orders in an amount not to exceed \$153,000 for air monitoring equipment and CNG vehicles as listed in Table 2 and described in this letter.

Barry R. Wallerstein, D.Env.
Executive Officer

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. The 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 National Air Toxics Trends Stations (NATTS) Program was developed to fulfill the need for long-term national HAP monitoring data. In Calendar Year 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 serve as a continuum between past and future air toxics measurements programs, such as MATES, and allow for more accurate evaluation of toxic trends on a regional basis. Since this is a long-term trends monitoring program, it is anticipated that NATTS funding will be granted annually for the next several years.

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 a total of seven 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 20 ambient SCAQMD monitoring stations operating 23 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 continuous PM2.5 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 PM2.5 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. In the new monitoring requirements, state and local air monitoring agencies are required to install near-road NO2 monitoring stations at locations where peak hourly NO2 concentrations are expected to occur. State and local air agencies are required 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.

Air Quality Sensor Performance Evaluation Center Program

In July 2014, the Board established an Air Quality Sensor Performance Evaluation Center (AQ-SPEC) to characterize the performance of low-cost air monitoring sensors which have recently been introduced into the market. The AQ-SPEC will help ensure successful evolution of these technologies while minimizing confusion between data obtained using standard measurement methods employed by regulatory agencies and that produced by these low-cost air monitoring sensors. Additionally, the AQ-SPEC will educate the public and users lacking specific technical training about the potential applications of these low-cost devices as well as their limitations.

Proposal

Enhanced Particulate Monitoring Program (FY 2015-16)

The SCAQMD has applied for funding from the U.S. Government for the ongoing Enhanced Particulate Monitoring Program for FY 2015-16 in the amount of \$2,836,157. Revenue for this grant has already been included in the FY 2015-16 Budget. This action is to recognize the remaining revenue up to \$612,655 into the FY 2015-16 Budget, and upon receipt, appropriate \$612,655 to Science and Technology Advancement's FY 2015-16 Budget as set forth in Attachment 2.

NATTS Program (FY 2015-16)

The U.S. EPA has provided Section 103 Grant funding in the amount of \$242,318 to continue the NATTS Program for the July 1, 2015 to June 30, 2016 time period. Revenue for this grant has already been included in the FY 2015-16 Budget. This action is to recognize the remaining revenue up to \$159,318 into the FY 2015-16 Budget, and, upon receipt, appropriate \$159,318 to Science and Technology Advancement's FY 2015-16 Budget as set forth in Attachment 3. The U.S. EPA concurs with staff's proposed allocation.

NATTS Program (FY 2014-15)

The remaining balance of FY 2014-15 NATTS funding must be reallocated in FY 2015-16. This action is to recognize the remaining balance up to \$98,563 into the FY 2015-16 Budget and appropriate \$98,563 to Science and Technology Advancement's FY 2015-16 Budget as set forth in Attachment 4.

PAMS Program (FY 2014-15)

As in previous years, there is a need to reallocate PAMS funding in the final quarter of the federal fiscal year ending September 30, 2015. This action is to recognize the remaining balance of up to \$472,604 into the FY 2015-16 Budget and appropriate \$472,604 to Science and Technology Advancement's FY 2015-16 Budget as set forth in Attachment 5. The U.S. EPA concurs with staff's proposed reallocation.

PM2.5 Program (FY 2014-15)

In FY 2014-15, the U.S. EPA provided funding in the amount of \$762,160 in Section 103 Grant funds for the continuation of the PM2.5 Program through March 31, 2016. There is a need to reallocate the remaining balance of PM2.5 funding in FY 2015-16. Revenue for this grant has already been included in the FY 2015-16 Budget. This action is to recognize the remaining balance of up to \$227,100 into the FY 2015-16 Budget and appropriate \$227,100 to Science and Technology Advancement's FY 2015-16 Budget as set forth in Attachment 6. The U.S. EPA concurs with staff's proposed allocation.

Near-Road NO₂ Monitoring Program (FY 2014-15)

U.S. EPA has provided funding in Section 103 grant funds for the implementation of the Near-Road NO₂ Monitoring Program through May 31, 2016. There is a need to reallocate the remaining balance of Section 103 funding in FY 2015-16. This action is to recognize the remaining balance of up to \$199,369 into the FY 2015-16 Budget and appropriate \$199,369 to Science and Technology Advancement's FY 2015-16 Budget as set forth in Attachment 7. The U.S. EPA concurs with staff's proposed allocation.

AQ-SPEC (FY 2014-15)

U.S. EPA has provided \$75,000 under the Section 105 grant in support of the AQ-SPEC Program, which will be used to design and develop data management and display systems and support other AQ-SPEC related activities. This action is to recognize the revenue up to \$75,000 into the FY 2015-16 Budget and appropriate \$75,000 to Science and Technology Advancement's FY 2015-16 Budget as set forth in Attachment 8. The U.S. EPA concurs with staff's proposed allocation.

Proposed Purchase Orders through an RFQ Process

PM10 Samplers

The U.S. EPA NATTS Program requires the analysis of air toxics samples collected onto filters from PM10 samplers. The current PM10 samplers have been in operation since the inception of the NATTS Program and are in need of replacement. The cost for two (2) PM10 samplers is approximately \$25,000. The SCAQMD Procurement Policy and Procedure allows for purchases under \$25,000 to be purchased using an informal bid process. Consequently, this RFQ may be handled as an informal bid.

PAH Samplers

The U.S. EPA NATTS Program requires the analysis of air toxics samples collected onto sampling media from PAH samplers. The current PAH samplers have been in operation since the inception of the NATTS Program and are in need of replacement. The cost for four (4) PAH samplers is approximately \$32,000.

Ozone Transfer Standard

SCAQMD uses ozone transfer standards to calibrate and audit the ozone monitors located at air monitoring stations. This ozone transfer standard is necessary for conducting performance evaluations of the air monitoring network. The current ozone transfer standard for this purpose is no longer supported and in need of replacement. The cost for one (1) ozone transfer standard is approximately \$10,000. Quotes for this RFQ will be solicited through informal bids, in accordance with SCAQMD Procurement Policy and Procedure.

Ceilometer

A ceilometer instrument continuously measures cloud bases and mixing depth in the lower atmosphere using laser technology. These instruments have been recommended by U.S. EPA as an efficient way to meet the proposed PAMS mixing height measurement requirements for upper air measurements, as included in the PAMS Meteorological Measurement section of the proposed new ozone standard. A purchase at this time will allow an inter-comparison with the existing SCAQMD upper air measurement network and an evaluation of instrument suitability for modeling and forecast support in the South Coast Air Basin. The cost for one ceilometer is approximately \$50,000.

Gas Chromatograph Preconcentrators

The PAMS Program requires the analysis of volatile organic compounds (VOCs) in the air. Samples are collected in canisters at select stations, and gas chromatographs (GCs) equipped with preconcentrators measure up to 57 VOCs, meeting the quality control criteria of the PAMS Program. The current GC preconcentrators are no longer supported, no longer compatible with current Windows operating systems and are in

need of replacement. The approximate cost for two (2) GC preconcentrators is \$124,000.

Gas Dilution Systems

Periodic calibration of the 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. With the addition of four near-road air monitoring sites, there is a need for additional calibration equipment, including the gas dilution systems. The approximate cost for two (2) gas dilution systems is \$35,000.

Traffic Counters

Traffic counters are electronic devices installed alongside a roadway or freeway to continuously monitor traffic and vehicle-specific information. This information is important for the correct interpretation of air quality data collected at near-roadway sites and from air monitoring stations heavily impacted by motor vehicle emissions. Staff is proposing the purchase of four traffic counters. The approximate cost of four (4) traffic counters is \$30,000.

CO Monitors

As part of near-road NO₂ monitoring, staff must perform diagnostics and spot checking of continuous gas monitors. This process requires a precise blending of gases using a dilution system. As a further quality control check to make sure the dilution is correct, the resulting blend is continuously monitored with a CO monitor. The approximate cost of two (2) CO monitors is \$20,000. Quotes for this RFQ will be solicited through informal bids, in accordance with SCAQMD Procurement Policy and Procedure.

Black Carbon Monitor

Various analytical methods have been developed to quantify the concentration of atmospheric soot particles. Soot can be analyzed by means of different methodologies. When its light-absorbing properties are measured, soot is referred to as black carbon (BC). BC measurements would enhance characterization of mobile sources in the near-road environment. The approximate cost for two (2) black carbon monitors is \$45,000.

Proposed Purchases through Sole Source Purchase Orders

CNG Vehicle (Sedan)

At the outset of the Enhanced Particulate Monitoring Program over seven years ago, several dedicated-CNG sedans 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 a multi-year vehicle replacement program is appropriate.

Under Section IV.A.5 of the SCAQMD Procurement Policy and Procedure, the Procurement Manager shall pursue cooperative purchasing opportunities whenever possible. Dedicated CNG vehicles are available from one vendor under the State of California, Department of General Services, Procurement Division, Alternative Fueled Vehicles Contract 1-14-23-10 (E). One CNG sedan from the vendor on the list with the most competitive price will be selected and has an approximate cost of \$38,000.

Ion Chromatography Upgrade

As part of the U.S. EPA NATTS Program, SCAQMD is conducting the analysis of hexavalent chromium by ion chromatography (IC). SCAQMD has two IC systems which share supporting equipment. The upgrade will provide additional supporting equipment so the ICs can run independently from each other, providing higher throughput and a full system back-up. The approximate cost for the ion chromatography upgrade is \$40,000.

Portable Ozone Monitors

As part of the U.S. EPA PAMS Program, SCAQMD is evaluating more flexible techniques for monitoring ozone and ozone precursors. One such technology is the 2B Technologies Personal Ozone Monitor (POM)TM. The technology is considered to nearly meet the U.S. EPA FEM standards for conducting ozone measurements and is portable and low power. This portable ozone monitor will be evaluated for mobile deployment for PAMS special studies and vertical ozone profiles. The approximate cost for three (3) portable ozone monitors is \$15,000.

CNG Vehicle (Truck or Van)

With an aging fleet of calibration and repair vehicles, staff has identified the need to replace the older high-mileage vehicles with new CNG-powered vehicles. Calibration and repair vehicles are essential for staff to perform routine and non-routine calibration, maintenance and repair of air monitoring equipment for air monitoring stations supporting the PM_{2.5} program.

Under Section IV.A.5 of the SCAQMD Procurement Policy and Procedure, the Procurement Manager shall pursue cooperative purchasing opportunities whenever possible. Dedicated CNG vehicles are available from vendors under the State of California, Department of General Services, Procurement Division, Alternative Fueled Vehicles Contract 1-14-23-10 (A-G). One CNG truck or van from the vendor on the list with the most competitive price for the type of vehicle will be selected and has an approximate cost of \$45,000.

Pure Air Generators

Pure air generators are necessary to deliver contaminant-free air required for the operation and calibration of air monitoring equipment. On December 5, 2014, the Board released RFQ #Q2015-13 to solicit bids for pure air generators from qualified

vendors and Teledyne was selected. SCAQMD's Procurement Policy and Procedure allows for awards based on prior bid, last price, if the conditions of the previous purchase are similar. The vendor has agreed to honor the same price for additional pure air generators. The cost for two (2) pure air generators from Teledyne is not to exceed \$15,000.

Outreach

In accordance with SCAQMD's Procurement Policy and Procedure, a public notice advertising the RFQs 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 RFQs 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.3 of the Procurement Policy and Procedure identifies four major provisions under which a sole source award may be justified for federally funded procurement and states: For contracts funded in whole or in part with federal funds, written justification for sole source award must be provided documenting that awarding a contract is infeasible under small purchase procedures, sealed bids or competitive proposals and that one of the following circumstances applies: (a) The item is available only from a single source; (b) The public exigency or emergency for the requirement will not permit a delay resulting from competitive solicitation; (c) The awarding federal agency authorizes noncompetitive proposals; or (d) After solicitation of a number of sources, competition is determined inadequate.

The request for sole source purchase of the ion chromatography upgrade and portable ozone monitors are made under Section VIII.B.3.a: The items are available only from a single source. There is currently only one vendor, Thermo Scientific, that can provide the compatible upgrade to the existing Thermo Scientific (formally Dionex) Ion Chromatography equipment. Similarly, there is currently only one vendor, 2B Technologies, that produces the portable ozone monitor based upon ultraviolet methods.

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, PM2.5, and Near-Road NO2 Monitoring Programs, including equipment, contracts, temporary services, and supplies necessary to meet the objectives of the program.

U.S. EPA Section 105 Grant funding supports the 23rd year operation of the PAMS Program, including equipment, contracts, temporary services and supplies necessary to meet the objectives of the Program, including \$75,000 in funding from this grant allocated towards the AQ-SPEC Program.

In summary, \$1,844,609 in revenue shall be recognized into the FY 2015-16 Budget and appropriated to Science and Technology Advancement’s FY 2015-16 Budget as specified in Attachments 1-8.

**Table 1
Proposed Purchase Orders through RFQ Process**

Description	Qty	Funding Source	Estimated Cost
PM10 Sampler	2	NATTS FY 15-16	\$25,000
PAH Sampler	4	NATTS FY 15-16	\$32,000
Ceilometer	1	PAMS FY 15-16	\$50,000
Ozone Transfer Standard	1	PAMS FY 15-16	\$10,000
Gas Chromatograph Preconcentrator	2	PAMS FY 15-16	\$124,000
Gas Dilution System	2	Near-Road FY 15-16	\$35,000
Black Carbon Monitor	2	Near-Road FY 15-16	\$45,000
Total Proposed Purchase Orders through RFQ Process			Not to Exceed \$321,000

**Table 2
Proposed Purchases through Sole Source Purchase Orders**

Description	Qty	Funding Source	Estimated Cost
CNG Vehicle	1	U.S. Government	\$38,000
Ion Chromatography Upgrade	1	NATTS FY 15-16	\$40,000
Portable Ozone Monitor	3	PAMS FY 15-16	\$15,000
CNG Vehicle	1	PM2.5 FY 15-16	\$45,000
Pure Air Generator	2	Near-Road FY 15-16	\$15,000
Total Proposed Purchases through Sole Source Purchase Orders			Not to Exceed \$153,000

Attachments

1. Proposed Revenues and Expenditures for FY 2015-16
2. Proposed Enhanced Particulate Monitoring Program Expenditures for FY 2015-16
3. Proposed NATTS Expenditures for FY 2015-16
4. Proposed NATTS Expenditures for FY 2015-16 (Remaining FY 2014-15 Balance)
5. Proposed 23rd Year PAMS Expenditures for FY 2015-16 (Remaining FY 2014-15 Balance)
6. Proposed PM2.5 Expenditures for FY 2015-16 (Remaining FY 2014-15 Balance)
7. Proposed Near-Road NO2 Monitoring Expenditures for FY 2015-16 (Remaining FY 2014-15 Balance)
8. Proposed AQ-SPEC Expenditures for FY 2015-16

Attachment 1
Proposed Revenues and Expenditures for FY 2015-16

Program Year	Funding Agency	Program Name	Revenues	Expenditures	Detailed Appropriations
FY 2015-16	U.S. Govt.	Enhanced Particulate Monitoring	612,655	612,655	Attachment 2
FY 2015-16	EPA-Section 103	NATTS	159,318	159,318	Attachment 3
FY 2014-15*	EPA-Section 103	NATTS	98,563	98,563	Attachment 4
FY 2014-15*	EPA-Section 105	PAMS	472,604	472,604	Attachment 5
FY 2014-15*	EPA-Section 103	PM2.5 Monitoring Network	227,100	227,100	Attachment 6
FY 2014-15*	EPA-Section 103	Near-Road NO2 Monitoring	199,369	199,369	Attachment 7
FY 2015-16	EPA-Section 105	AQ-SPEC	75,000	75,000	Attachment 8
			1,844,609	1,844,609	

* Recognize revenue and appropriate funds representing the remaining balance of the FY 2014-15 award.

Attachment 2
Proposed Enhanced Particulate Monitoring Expenditures for FY 2015-16

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	88,400
Maintenance of Equipment	67600	47505	1,500
Building Maintenance	67650	47505	106,000
Auto Mileage	67700	47505	89,029
Travel	67800	47505	3,000
Communications	67900	47505	7,020
Clothing	68000	47505	250
Office Expense	68100	47505	1,820
Small Tools	68300	47505	45,500
Taxes, License, Fees	69600	47505	21,000
Total Services & Supplies			\$ 468,519
Capital Outlay Major Object			
CNG Vehicle	77000	47505	\$ 38,000
Total Capital Outlay Major Object			\$ 38,000
FY 2015-16 Appropriations			\$ 612,655

*Salaries, Benefits and Indirect Costs (excluding overtime) are already included in the FY 2015-16 Budget; this revenue/appropriation is for the excluded overtime.

Attachment 3
Proposed NATTS Expenditures for FY 2015-16

Account Description	Account Number	Program Code	Estimated Expenditures
Services & Supplies Major Object			
Professional and Specialized Services	67450	47468	\$ 17,000
Maintenance of Equipment	67600	47468	45,000
Travel	67800	47468	6,000
Laboratory Supplies	68050	47468	15,000
Office Expense	68100	47468	1,118
Small Tools	68300	47468	35,200
Total Services & Supplies			\$ 119,318
Capital Outlay Major Object			
Ion Chromatograph Upgrade	77000	47468	\$ 40,000
Total Capital Outlay Major Object:			\$ 40,000
FY 2015-16 Appropriations			\$ 159,318

Note: Salaries, Benefits and Indirect Costs are already included in the FY 2015-16 Budget

Attachment 4
Proposed NATTS Expenditures for FY 2015-16 (Remaining FY 2014-15 Balance)

Account Description	Account Number	Program Code	Initial Appropriation (a)	Appropriations not to Exceed
Services & Supplies Major Object				
Professional and Specialized Services	67450	47468	\$ -	\$ 15,000
Maintenance of Equipment	67600	47468	0	15,000
Travel	67800	47468	-	1,000
Laboratory Supplies	68050	47468	0	5,000
Office Expense	68100	47468	0	500
Small Tools	68300	47468	0	5,063
Total Services & Supplies			\$ -	\$ 41,563
Capital Outlay Major Object				
PM10 Sampler (2)	77000	47468	25,000	25,000
PAH Sampler (4)	77000	47468	32,000	32,000
Total Capital Outlay Major Object			\$ 32,000	\$ 57,000
FY 2015-16 Appropriations			\$ 32,000	\$ 98,563

(a) This is the estimated amount for the first quarter of FY 2015-16. The remaining amount will be appropriated upon reconciliation of FY 2014-15 expenditures.

Attachment 5

Proposed 23rd Year PAMS Expenditures for FY 2015-16 (Remaining FY 2014-15 Balance)

Account Description	Account Number	Program Code	Initial Appropriation (a)	Appropriations not to Exceed
Services & Supplies Major Object				
Rents & Leases Structure	67350	26350	\$ 18,050	\$ 18,050
Professional and Specialized Services	67450	47530	\$ 70,000	70,000
Maintenance of Equipment	67600	47530	10,000	50,000
Maintenance of Equipment	67600	26530	10,000	24,000
Building Maintenance	67650	47530	10,000	45,000
Building Maintenance	67650	26530	1,000	1,000
Communications	67900	26530	5,000	5,000
Laboratory Supplies	68050	47530	8,000	18,000
Office Expense	68100	47530	3,000	3,000
Office Expense	68100	26530	3,000	3,000
Small Tools	68300	47530	10,000	33,054
Small Tools	68300	26530	500	500
Miscellaneous	69500	26530	3,000	3,000
Total Services & Supplies			\$ 130,500	\$ 273,604
Capital Outlay Major Object				
Ozone Transfer Standard	77000	47530	10,000	10,000
Portable Ozone Monitor (3)	77000	47530	15,000	15,000
Ceilmeter	77000	26530	50,000	50,000
Gas Chromatograph Preconcentrator (2)	77000	26530	0	124,000
Total Capital Outlay Major Object			\$ 75,000	\$ 199,000
FY 2015-16 Appropriations			\$ 205,500	\$ 472,604

(a) This is the estimated amount for the first quarter of FY 2015-16. The remaining amount will be appropriated upon reconciliation of FY 2014-15 expenditures.

Attachment 6
Proposed PM 2.5 Expenditures for FY 2015-16 (Remaining FY 2014-15 Balance)

Account Description	Account Number	Program Code	Initial Appropriation (a)	Appropriations not to Exceed
Services & Supplies Major Object				
Rents & Leases Structure	67350	47500	\$ 2,000	\$ 4,500
Building Maintenance	67650	47500	\$ 20,000	\$ 60,000
Maintenance of Equipment	67600	47500	15,000	50,957
Travel	67800	47500	6,000	6,000
Laboratory Supplies	68050	47500	10,000	25,000
Office Expense	68100	47500	5,000	10,643
Small Tools	68300	47500	15,000	25,000
Total Services & Supplies			\$ 73,000	\$ 182,100
Capital Outlay Major Object				
CNG Vehicle	77000	47500	45,000	45,000
Total Capital Outlay Major Object			\$ 45,000	\$ 45,000
FY 2015-16 Appropriations			\$ 118,000	\$ 227,100

(a) This is the estimated amount for the first quarter of FY 2015-16. The remaining amount will be appropriated upon reconciliation of FY 2014-15 expenditures.

Attachment 7

Proposed Near-Road NO2 Monitoring Expenditures for FY 2015-16 (Remaining FY 2014-15 Balance)

Account Description	Account Number	Program Code	Initial Appropriation (a)	Appropriations not to Exceed
Services & Supplies Major Object				
Professional and Specialized Services	67450	47469	\$ 15,000	\$ 20,000
Maintenance of Equipment	67600	47469	5,000	7,869
Travel	67800	47469		-
Utilities	67850	47469	2,500	10,000
Communications	67900	47469	\$ 5,000	10,000
Laboratory Supplies	68050	47469		-
Office Expense	68100	47469	0	1,500
Small Tools	68300	47469	2,500	5,000
Total Services & Supplies			\$ 30,000	\$ 54,369
Capital Outlay Major Object				
Gas Dilution System (2)	77000	47469	35,000	35,000
Pure Air Generator (2)	77000	47469	15,000	15,000
Traffic Counters (4)	77000	47469	0	30,000
CO Monitor (2)	77000	47469	20,000	20,000
Black Carbon Monitor (2)	77000	47469	45,000	45,000
Total Capital Outlay Major Object			\$ 115,000	\$ 145,000
FY 2015-16 Appropriations			\$ 145,000	\$ 199,369

(a) This is the estimated amount for the first quarter of FY 2015-16. The remaining amount will be appropriated upon reconciliation of FY 2014-15 expenditures.

Attachment 8
Proposed AQ-SPEC Expenditures for FY 2015-16

Account Description	Account Number	Program Code	Initial Appropriation (a)	Appropriations not to Exceed
Capital Outlay Major Object				
Design and Develop Data Management and Display Systems/AQ-SPEC Implementation	77000	43079	\$ 75,000	\$ 75,000
Total Capital Outlay Major Object			\$ 75,000	\$ 75,000
FY 2015-16 Appropriations			\$ 75,000	\$ 75,000