Board Agenda Item

TO: Air Pollution Control District Board

FROM: Aeron Arlin Genet, Air Pollution Control Officer

CONTACT: Kristina Aguilar, Administrative Manager 805-961-8813

SUBJECT: Fiscal Year 2018-19 Budget Amendment and a Waiver of Competition for the Purchase of an Airpointer Portable Air Monitor

RECOMMENDATION:

1. Authorize the following budget amendments:

   a. Transfer appropriations of $48,200 from Services & Supplies Account #7460 (Professional and Special Services) to Capital Assets #8300 (Equipment); and

   b. Increase appropriations of Capital Assets Account #8300 (Equipment) by an additional $50,000, for a total budget amount of $235,200.

2. Authorize the Santa Barbara County Air Pollution Control District (District) to purchase an Airpointer portable air quality monitor as a sole source procurement without being required to conduct a formal bid process, for a total cost not to exceed $108,200, including taxes.

DISCUSSION:

1. Proposed Budget Amendments:

On October 18, 2018, your Board approved acceptance of a California Air Resources Board (CARB) one-time grant in the amount of $50,000. As referenced in the Board letter, these grant funds will be added to the $50,000 already included in the FY 2018-19 budget for the purpose of purchasing a portable air monitor. A budget amendment is required by the Auditor-Controller and County Budget Act to properly classify appropriations in the correct Expenditure Object Level for budgetary and financial reporting purposes before the new equipment can be purchased. In
approving this action, $48,200 will be transferred from the District’s Services & Supplies Account #7460 (Professional and Special Services) to the Capital Assets object level Account #8300 (Equipment) and the total budget for appropriations of Capital Assets Account #8300 (Equipment) will be increased by $48,200. Combined with $10,000 that was originally included in the Capital Assets budget for monitoring equipment and the additional $50,000 grant funds, the transfer of $48,200 will result in a net zero effect to the overall budget for the purchase of the equipment.

The budget amendments require a four/fifths approval vote, i.e., 11 affirmative votes.

2. Sole Source Procurement of Portable Monitor:

Air quality monitoring equipment must use approved sampling methods and follow strict quality assurance specifications. Because of these constraints, the amount of vendors and types of equipment offered for sale is inherently limited. District staff conducted research and interviewed experts in the field of air monitoring to determine the best type of equipment to meet our specialized needs for a portable monitor. This included direct communication with vendors, discussions with experts at national air monitoring conferences, and discussions with California Air Resources Board (CARB) monitoring staff. The Airpointer is a compact, low weight, highly efficient device that requires less maintenance and energy to operate while producing high quality air monitoring data that meets state and federal monitoring requirements.

We investigated the possibility of purchasing a customized monitoring van; however, not all of the proposed equipment met the required standards, and a van introduces additional expenses related to staffing and vehicle maintenance as well as power supply/continuity restrictions. In addition, the cost of a customized monitoring van was estimated to be two to three times the price of the Airpointer portable monitor.

The District would like to purchase an Airpointer portable air monitor with trailer and stand, customized to meet the District’s specialized needs. The equipment manufacturer, Ambilabs, (www.ambilabs.com) designs and manufactures turn-key stationary and mobile air monitoring systems, and has provided a price quote of $108,194 that is attached to this letter. This customized monitor, which uses instrumentation that District staff is already familiar with, is only available through Ambilabs, and is not available through any other manufacturers. The Airpointer is a specialized mobile monitor system that provides for safe and secure housing and transport of highly sensitive and accurate monitoring equipment. The equipment can be placed on a trailer for deployment, and can be moved off the trailer for inside storage, testing, and maintenance.

The specific build that is included in this quote includes an H2S (hydrogen sulfide) analyzer capable of measuring this odorous gas down to 1 part per billion and a particulate monitor that simultaneously measures both PM10 and PM2.5 (particulate matter less than 10 microns in size, and less than 2.5 microns in size, respectively). These instruments are designated as equivalent methods to the state and federal reference methods, meaning that the measured values can be compared to the applicable ambient air quality standard. The Airpointer also includes equipment to measure meteorological conditions, and additional pollutant monitors can be added to the unit in the future and installed onsite. The unit can use either Ethernet or cell modem to communicate with the District’s existing air quality software so that the data collected can be publically
accessible on our website. The District intends to use this equipment to measure air quality in cases where air pollutants and/or odors may be intermittent or change locations, such as during wildfires, prescribed burns, complaints, special studies, and accidental releases.

As the quoted cost of $108,194 for the Airpointer exceeds the District’s authority to issue a purchase order without completing a bid process, the District requests a competitive bid waiver to move forward with the purchase of an Airpointer mobile monitor. As described above, the Airpointer is a specialized piece of equipment that is designed and custom-built to meet the District’s portable monitoring needs, and the gas analyzers included in the Airpointer meet strict state and federal protocols.

FISCAL IMPACT:

The budget amendments that are proposed in this item specifically address impacts to the Fiscal Year (FY) 2018-19 budget that your Board adopted on June 21, 2018. In terms of District staff time, the acquisition and future deployment of an Airpointer portable air monitor is within the scope of the air monitoring activities that were included in the FY 2018-19 approved budget.

ATTACHMENTS:

A. Budget Journal Entry
B. Airpointer portable air monitor quote
Budget Journal Entry

Document Number: BJE - 0006087
Document Description: To amend budget from S&S to Capital

Batch ID: 2243141
Processed On: 11/15/2018 1:32:15 PM

Created On: 11/15/2018 1:32:15 PM
Created By: Kristina Aguilar

Post On:
Processed By:

References
Audit Trail: Actualizing JE:

Budget Revision Request

Agenda Item: Agenda Date: 12/20/2018 Approval: BOS 4/5 Has Board Letter: Yes
Title: Budget Amendment for AirPointer
Budget Action: Transfer appropriations of $48,200 from Services & Supplies Account #7460 Professional and Special Services to Capital Assets Account #8300 Equipment. Also increase appropriations in Account #8300 Equipment by $50,000 and revenue account #5097 Planning and Engineering

Justification: The proposed budget amendment will transfer $48,200 from the Services & Supplies Account #7460 Professional and Special Services to Capital Assets object level (#8300 Equipment) to allow for the purchase of a Mobile Air Sensor called an AirPointer, within our Monitoring department. With this budget amendment, we will also add an additional appropriation of $50,000 to cover the cost of the capital asset. The additional appropriation will be covered by a California Air Resources Board (CARB) one-time grant that the District’s board approved on October 18, 2018. This asset was not originally budgeted for in FY 2018-19, however now that the one-time monies from CARB have become available the District would like to purchase the sensor in the current fiscal year.

Budget Revision Request Financial Summary

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County of Santa Barbara, FIN
Printed: 12/28/2018 2:27:32 PM
## Budget Journal Entry

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**Total** 98,200.00 98,200.00

### Signatures

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ATTACHMENT B

Airpointer Portable Air Monitor Quote

January 17, 2019

Santa Barbara County Air Pollution Control District
Board of Directors

260 San Antonio Road, Suite A
Santa Barbara, California 93110
# Quotation

**Date**: 12/10/2018  
**Estimate #**: M13107

## Purchaser

Santa Barbara County APCD  
260 North San Antonio Rd, Suite A  
Santa Barbara, CA 93110  
ATTN: Joel Cordes (805-961-8816)

<table>
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<tr>
<th>Item</th>
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| **AP-HC** | Airpointer HC (High Capacity) Base Unit  
58"x36"x26"  
Comprising thermally isolated cabinet including 1100W A/C unit designed for hot/humid climates, sampling system incl. piston pump, zero air cartridge, central power supply Data processing platform with 32bit CPU, 512 MB RAM, 2 HDD (RAID 1), mini-UPS, and ethernet connection; includes handles, set of 2 door locks. | 1 | 27,444.00 | 27,444.00T |
| **Discount - Product** | Product Discount on above line item | | | -1,500.00 | -1,500.00 |
| **H2S MODULE** | **AP-H2S** | H2S Module: UV-Fluorescence analyzer with H2S converter & signal conditioning for integration into the Airpointer base unit.  
*NOTE: Teledyne module preferred per SBCAPCD* | 1 | 23,355.00 | 23,355.00T |
| **AP-H2St** | Airpointer permtube H2S | 1 | | 794.00 | 794.00T |
| **AP-IZS-H2S** | Internal H2S source (perm tube oven) for periodical span point check of the H2S analysis module (no perm tube included). | 1 | | 2,639.00 | 2,639.00T |
| **V-AllinOne** | Meterglass Meteorological Sensor - includes Ultrasonic Wind Speed/Wind Direction (2D), Precipitation (volume, duration, and intensity), barometric pressure, air temperature, humidity. | 1 | | 3,670.00 | 3,670.00T |
| **PARTICULATE MATTER** | **AE-T640** | Model T640 PM Mass Monitor  
High resolution particle sensor with broadband LED source, Microprocessor control with 4GB internal data storage and NumaView software. T-series, lightweight 19" rack mountable chassis with Ethernet communications. Simultaneous, 1-min. PM10 and PM2.5 mass concentration measurements. 115VAC 60Hz. Includes the following:  
Internal sample pump (for 5 LPM sample flow) with in-line DFU filter.  
Internal sample flow controller with ambient temp/press compensation.  
Aerosol Sample Conditioner (ASC).  
Ambient temperature probe with 15' cable and solar shield.  
Operating manual on CD. | 1 | 25,490.00 | 25,490.00T |
| **TPI-0849** | Leak Check, flow adaptor kit | 1 | | 190.00 | 190.00T |
| **SHIPPING** | Packing and Shipping and Insurance of Airpointer to Santa Barbara, CA | | | 895.00 | 895.00 |
| **Mobile shelters** | **TRAILER & SCISSOR LIFT** | 4 x 6' Advanced Trailer, customized for Airpointer transport  
Includes secure attachment for Airpointer and scissor lift for easy relocation, levelers, tool box, spare tire | 1 | 10,000.00 | 10,000.00T |
| **PL1** | Scissor Lift Stand, customized for Airpointer  
Includes locking wheels, removable frame for storage and transport on trailer | 1 | | 6,000.00 | 6,000.00T |
| **SUB-TOTAL: AIRPOINTER + SHIPPING** | | | | 82,977.00 | 82,977.00 |

## Total
## Quotation

**Date** | **Estimate #**  
--- | ---  
12/10/2018 | M13107

**Purchaser**

Santa Barbara County APCD  
260 North San Antonio Rd, Suite A  
Santa Barbara, CA 93110  
ATTN: Joel Cordes (805-961-8816)

### Item | Description | Qty | U/M | Per Unit | Total  
--- | --- | --- | --- | --- | ---  
Shipping-Std | Packing and Shipping and Insurance of Trailer to Santa Barbara, CA | 1,500.00 | 1,500.00 |  
**SUB-TOTAL: TRAILER/LIFT+ SHIPPING** | | | | | **17,500.00**  
AP-AD | AD-Module for implementation of 6 additional analog devices, switchable 0-20mA or 0-10V. | 0 | | 580.00 | 0.00T  
AP-FIL | Spare filter with extended lifetime of more than 10 times compared to conventional 47mm Teflon filter (cylinder style filter made of sintered Teflon). | 0 | | 92.00 | 0.00T  
AP-H | Housing for cylinder-style sample filter with 8 times larger surface and more than 10 times longer filter lifetime (includes 1 filter). **PRICE ONLY VALID IF ORDERED WITH A BASE UNIT** | 0 | | 1,570.00 | 0.00T  
AP-HHigh | **Only available with AP-H** Heating of sample filter to avoid condensation, including reservoir for moisture and alarm sensors to prevent overflow; measurement of the filter drop. Only needed in very cold or very humid climates. | 0 | | 1,451.00 | 0.00T  
AP-HEAT | Additional heater to preheat Airpointer before start in case of start-up or restart at very low temperatures (-40 deg C). | 0 | | 620.00 | 0.00T  
T&C_Ambi_2015... | **TERMS & CONDITIONS**  
Payment Terms: 50/50 – 50% payment is due at the time order is placed, with balance due 30 days from the date of shipment to the customer.  
California 7.75% Sales Tax | | | | 7.75% | 7,717.61

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**Total** | USD 108,194.61

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**PO Box 311, Warren RI 02885**  
**EIN: 45-2275301**  
**Tel : 877-247-0403, Fax : 401-537-9166**  
**Email : info@ambilabs.com**  
**Web : www.ambilabs.com**