

AB 617 Implementation Funds Final Report

I.	Report Number:	1 G20-CAPP-29 -JM
	Title:	CAPP Final Report- Grant G19-CAPP-29 Year 4
	Reporting Period:	July 1, 2022, thru June 30, 2023
	Name of Grantee:	Shasta County AQMD
	Grant Number:	G19-CAPP-29 G20-CAPP-29 -JM
	Date of Submission:	6/30/2023

II.	Costs associated with specific tasks: <i>(for example: identifying location for monitoring, deploying community air monitoring systems, fence- line monitoring, reporting emissions, developing a community emissions reduction program, establishing best available retrofit control technology requirements, adopting an expedited schedule for the implementation of best available retrofit control technology, community meetings or other Community Air Protection implementation efforts and outreach). Information for outreach events must include the date, location, topics, and number of attendees, for each event.)</i>
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Best Available Retrofit Control Technology (BARCT) determinations and development of BARCT Rule- \$7,361.39

Cement plant surveillance program in low-income neighborhood- \$15,725.07

Software for processing live particulate matter monitoring data to post on publicly accessible District website- \$2,777.00

III.	How is grant being utilized to meet goals of AB 617: <i>(If applicable, include emissions reductions being achieved)</i>
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BARCT Rule – The goal of the BARCT implementation is to reduce criteria pollutant emissions from sources that currently participate in the cap-and-trade system or are subject to the California Air Resources Board (CARB) Mandatory Greenhouse Gas Reporting Regulation. Two facilities in Shasta County are subject to the BARCT requirements of AB617, CalPortland Redding Cement Plant and Dicalite Minerals.

Industrial Facility in Low Income Community Surveillance Program - The District has identified the need to increase inspections and surveillance of a large industrial facility located in a low income community. The District has initiated a daily surveillance and compliance documentation program. Additionally, the District has developed three low-cost particulate matter sensor units that operate on battery/solar power and transmit data via a cellular signal to publicly accessible websites such as PurpleAir and fire.airnow.gov. These sensors have been deployed near the cement plant and can be used to verify complaints etc..

Publicly Accessible Air Sensors - Shasta County is a large county with many small, remote, low-income communities. Many of these communities receive the brunt of smoke impacts during the annual wildfire season. Public schools are located in many of these communities. The District reached out to the Shasta County Office of Education (SCOE) and inquired on ways to better serve the schools when smoke was present. SCOE provided the District with a list of schools that were in need of air quality sensors. To better equip Shasta County Schools for wildfire smoke intrusions; the District purchased 15 Purple Air Sensors and installed them in low income communities such as: Big Bend, Dunsmuir, Lakehead, Igo, and Cottonwood. (Please contact the District for a complete list of communities served by this program). These low-cost sensors are now providing air quality data to schools in low income communities that were once underserved.

Update Monitoring Equipment/Software to Interface with Public on Website - The District conducted a review of information that was sought by the public on the District website. It was found that the public visited the air quality map, air quality Sites and wildfire air quality information pages approximately 10,000 times during the 2019 wildfire season. Seeing a need to provide better real-time particulate matter/smoke information, the District purchased a new E-BAM 1022 and installed it at the Redding monitoring site. Part of this monitoring upgrade required the District to update the software package used to process the data and send it to publicly accessible outlets such as AirNow and the District website.

Landfill Greenhouse Gas Reduction - There are two solid waste landfills located in one common low-income area of Shasta County. In 2020 District staff accompanied CARB staff on inspections of the two landfills. CARB inspectors used portable methane



detectors to locate numerous leaks in the landfill cover seal. Based on this situation and the fact that the District is responsible for ensuring compliance with landfill operations.

IV. Summary of work completed and in progress since the last progress report:

The District began work on implementing the BARCT determination process for two facilities subject to the regulation. For a cement manufacturing facility, a BARCT determination was made reflecting a consent decree that established BARCT level emission limits for cement manufacturing. The draft BARCT determination was completed in April 2021 and the District began incorporating the emission limits into a District rule. For a diatomaceous earth processing facility, the District completed a BARCT determination in May 2021. The District began development of a new District BARCT Rule that will incorporate the BARCT limits for the two facilities, and a draft of the associated rulemaking is currently underway and will be prepared for presentation to the Air Pollution Control Board.

In response to an increase in complaints about dust being emitted from a cement manufacturing facility, the District implemented a program to increase inspections and surveillance in the low-income community surrounding the cement plant. Daily surveillance inspections have resulted in fewer neighbor complaints and district has documented less fugitive emissions being emitted from the facility into the nearby low-income community. Inspection logs available to public upon request. The surveillance program is ongoing to ensure that the cement facility remains in compliance.

Portable air sensors for low-income communities. The District began assembling equipment and completed testing of sensors that are powered by solar/battery systems and connect to the internet via portable hot-spot type transmitters. These portable sensor units have been used to monitor emissions from the cement manufacturing plant in the surrounding low-income community and can also be deployed as fence-line monitors around the perimeter of the cement plant.

The District purchased a portable methane detector which will be used by District staff to locate leaks of volatile organic compounds and greenhouse gases. The District will also loan the detector to landfill operators as a proactive action to prevent leaks and maintain compliance.

V. Grant funds remaining and expended:

District did not expend all G19-CAPP-29 (see calculation below and attached spreadsheet with documentation.

G20-CAPP-29 -JM

GRANT FUNDS WITH INTEREST EARNED

Grant Funds \$ 34,303.00

Interest Earned \$ 44.70

Total Funds Available \$ 34,347.70

FUNDS BALANCE CALCULATION

Total Funds with Interest \$ 34,347.70

Funds Expended by SCAQMD \$ 23,086.46 This does not equal what is noted above: \$25,863.46

Balance \$ 11,261.25 (Should be \$8,484.24 ? - jm)

VI. Expenditure summary showing all Community Air Protection Program Implementation Funds for which reimbursement is being requested:

N/A