

**AB617 Community Air Protection Program  
(G20-CAPP-19-1)**

**FINAL ANNUAL REPORT**

**March 23, 2022 – May 19, 2023**

Submitted May 25, 2023



## 1. Introduction

The Monterey Bay Air Resources District (MBARD) received grant funds from the California Air Resources Board (CARB) to implement the Community Air Protection Program consistent with the goals of Assembly Bill 617 (AB617).

This in the final annual report is for grant agreement G20-CAPP-19-1. MBARD submitted the reimbursement request for G20-CAPP-19-1 on March 31, 2023.

This annual report satisfies Section 3.B of the grant agreement by providing the following information:

- Report number, title, name of Grantee, date of submission, project Grant number;
- Report costs associated with specific tasks;
- Report how grant is being utilized to meet goals of Assembly Bill 617. If applicable, include emission reductions being achieved;
- Summary of work completed;
- Grant funds remaining and expended; and
- Expenditure summary showing all Community Air Protection Program Implementation Funds for which disbursement is being requested.

## 2. Work Completed and In Progress

This section summarizes the tasks and the dates each task was completed to implement the Community Air Protection Program since MBARD began work on the program in 2018.

The main task completed during the first year of the grant was the development and Board approval of an expedited Best Available Retrofit Control Technology (BARCT) schedule. The schedule was adopted by MBARD's Board in November 2018 meeting in compliance with the AB617 due date of January 1, 2019. MBARD's expedited BARCT schedule is available to review on BARCT website here: <https://ww2.arb.ca.gov/our-work/programs/community-air-protection-program/technology-clearinghouse/expedited-barct>

**Table 1. Summary of Work Completed Under Community Protection Grants**

Activity Completed	Date
Work Completed on Grant G17-CAPP-19	
MBARD Reviews Current Rules for BARCT Stringency and Provides Clearinghouse List to CARB	February 27, 2018

**Table 1. Summary of Work Completed Under Community Protection Grants**

<b>Activity Completed</b>	<b>Date</b>
MBARD Reviews and Provides Edits to CARB BARCT Clearinghouse Entries for MBARD Rules	April 12, 2018
Board Approval of AB617 Grant Agreement	April 18, 2018
AB617 Grant Agreement Executed	April 30, 2018
MBARD Completes Draft Expedited BARCT Schedule	September 2018
MBARD Publishes Notice of Public Workshop to Review Draft Expedited BARCT Schedule via Newspaper, District Website, and Email to Affected Sources	September 25, 2018
MBARD Advisory Committee Presentation of Draft Expedited BARCT Schedule	October 4, 2018
Public Meeting per Health and Safety Code §40920.6.(d)	October 15, 2018
Board Approval of AB617 Grant Agreement Amendment	November 14, 2018
Board Adoption of Expedited BARCT Schedule	November 14, 2018
Grant Agreement AB617 Amendment Executed	December 31, 2018
Participation in CARB and Air MBARD BACT/BARCT Committee to establish clearinghouse per Health and Safety Code §40920.8	Beginning in January 2018 and ongoing meetings every other Tuesday
Participation in CARB Rule Development Process for the Regulation for the Reporting of Criteria Air Pollutants and Toxic Air Contaminants	Beginning in December 2017 and Ongoing
Initiate Development of First BARCT Rule – Rule 441. Boilers, Steam Generators, and Process Heaters	May 23, 2019
Conduct Rule Development Activities	May 23, 2019 to February 19, 2020
Provided Written Comments on the 25-Day Modifications to the Emission Reporting Regulation	June 6, 2019
Execute Database Licenses with Accela	August 20, 2019
Execute Database Professional Services to Implement Accela with Vision33	November 1, 2019
Advisory Committee Review of Rule 441	December 5, 2019
Public Meeting on Rule 441	January 15, 2020

**Table 1. Summary of Work Completed Under Community Protection Grants**

<b>Activity Completed</b>	<b>Date</b>
Board Hearing and Adoption of Rule 441	February 19, 2020
Work Completed on Grant G18-CAPP-19	
Participation in CARB and Air District BACT/BARCT Committee to establish clearinghouse per Health and Safety Code §40920.8	Beginning in January 2018 and ongoing meetings every other Tuesday
Participation in CARB Rule Development Process for the Regulation for the Reporting of Criteria Air Pollutants and Toxic Air Contaminants and the AB2588 Emissions Inventory Criteria and Guidelines (CTR and EICG)	Beginning in December 2017 and Ongoing
Continue New Database Implementation	Beginning in November 2019 and Ongoing
Begin Internal Review of Next BARCT Rule Internal Combustion Engines	Begin in July 2020
Improve Spanish Language Outreach for Wildfire Communication and AQI video on Website ( <a href="https://www.mbard.org/wildfire-smoke-information-and-resources">https://www.mbard.org/wildfire-smoke-information-and-resources</a> )	Summer 2020
Launch Spanish Language Media Outreach (Radio and TV)	Summer 2020
Issued First Quarterly Newsletter and Posted to Website	June 2020
Launched MBARD YouTube Channel	June 2020
Board Approval of Updated Records Retention Schedule	August 19, 2020
Prepare Staff Report Evaluating Need for Internal Combustion Engine Rule Making	October 2020
Began Working with GIS Consultant to Create Map of Permitted Sources for Website	November 2020
Advisory Committee Review of Internal Combustion Engine Rule Making	November 5, 2020
Provided Written Comments on the Proposed Amendments to the Criteria and Toxics Emissions Reporting Regulation and Emission Inventory Criteria and Guidelines (AB2588)	November 12, 2020
Board of Directors Approval - Internal Combustion Engine Rule Making Activities Not Necessary	November 18, 2020

**Table 1. Summary of Work Completed Under Community Protection Grants**

<b>Activity Completed</b>	<b>Date</b>
Comment on the 15-day Changes to CTR and EICG	February 3, 2021
Work Completed on Grant G19-CAPP-19	
Ongoing Deployment of Clarity Smoke Sensor Network	August 2021
Board of Directors Adopted Nondiscrimination Policies	October 20, 2021
Advisory Committee Meeting – Rule 427 Steam Driven Crude Oil Production Well Rule Revision Not Necessary	February 3, 2022
Board of Directors Approval – Rule 427 Steam Driven Crude Oil Production Well Rule Revision Not Necessary	February 16, 2022
Begin review of final BARCT Rule for Lime Kilns	March 8, 2022
Work Completed on Grant G20-CAPP-19-1	
Board of Directors Adopted Racial Equity Statement	March 16, 2022
Continue Deployment of Clarity Sensor Network	March 2023
Community Meeting	March 22, 2023
Community Meeting	March 23, 2023
Continue review of final BARCT Rule for Lime Kilns	April 2023
Update Map of Permitted Sources	May 2023
Continue to Support Regulated Sources and Internal Improvements to Facilitate Implementation of the Criteria and Toxics Reporting Regulation	Ongoing
Continue Spanish Language Outreach	Ongoing
Continue Participation in BACT/BARCT Working Group	Ongoing

## 2.1 COMPLETED WORK

This section describes the work completed to implement the Community Air Protection Program under Grant G20-CAPP-19-1.

In the first quarter of 2022, we began our review of the final BARCT rule in the implementation schedule for lime kilns. Staff are currently reviewing retrofit or replacement options, costs of retrofits or replacements, and associated emission reductions. The lime kiln in our jurisdiction is the only one in the state so there are no other air district rules to evaluate.

MBARD staff continues to participate in CARB's regular BACT/BARCT clearinghouse committee meetings and emission reporting regulation meetings. MBARD continues to participate through meetings and comments on the development of the revisions to the CARB adopted emission reporting regulation and the updates to the Hot Spots Emission Inventory Criteria and Guidelines.

MBARD also continued to acquire and use technology tools to enhance our interaction with the public and our permitted sources. We are working on a connection between our permit database and Laserfiche to provide public access to documents.

MBARD participated in the North Central Coast Working Group for California Clean Air Day (October 5, 2022). The group had regular meetings and MBARD provided funding to support Clean Air Day microgrants. Our staff also hosted a booth at an Electric Vehicle Ride and Drive Event in Salinas on October 2, 2022.

Finally, MBARD continued our Spanish language outreach using our quarterly newsletter, outreach materials, radio, television, and website.

### Community Meetings

MBARD's Planning team coordinated three community meetings to discuss AB617 Clean Air Protection Program grants and seek community input. MBARD's Engineering and Compliance teams who work on this grant also participated in the community meetings to discuss our activities related to this grant. MBARD also ensured a Spanish speaking staff person was available at the meetings. The following summarizes the community meetings.

Tuesday, March 21, 2023 - 2:00 pm **Cancelled, Rescheduled to June 2023**

Monterey County Agricultural Commissioner's Office  
1428 Abbott St., Salinas, CA 93901

Wednesday, March 22, 2023 - 2:00 pm

Watsonville Public Library  
275 Main St., Watsonville, CA 95076  
Number of Attendees: 2

Thursday, March 23, 2023 - 2:00 pm

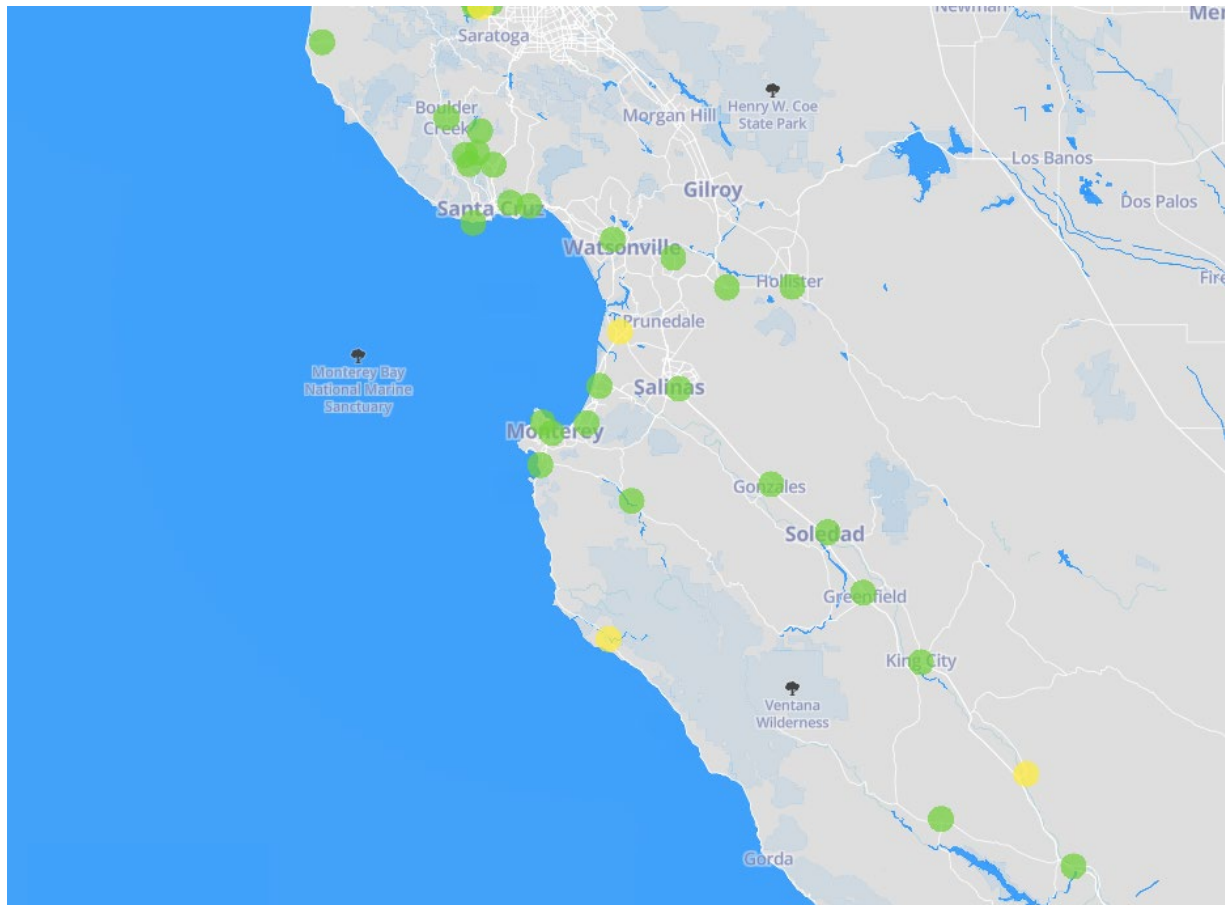
Monterey County Free Libraries - Marina Branch  
190 Seaside Circle, Marina, CA 93933  
Number of Attendees: 0

### Clarity Sensor Network

In 2021, MBARD's planning and air monitoring teams began a first of its kind project to establish a smoke sensor network within our jurisdiction. They found that when wildfire season came around, our regulatory air monitoring network simply could not provide air quality data of sufficient spatial or temporal granularity to meet stakeholders' needs for real-time, local air quality information. MBARD utilized Clarity's Sensing-as-a-Service solution and was able to more than triple the number of air quality measurement points available to our stakeholders while saving staff time and minimizing the overhead associated with managing a network of air quality monitoring equipment. Clarity created a [video](#) showcasing the smoke sensor network.

Several of the Clarity PM<sub>2.5</sub> sensors were installed in disadvantaged and low-income communities and near highways to gain a better understanding of localized PM<sub>2.5</sub> impacts. The Clarity PM<sub>2.5</sub> sensors are self-powered with a solar battery pack and transmit data using the cellular network. These features improve MBARD's ability to provide timely data to the public.

MBARD has continued to expand the network in 2022-2023. To date, 30 sensors have been installed in the local incorporated jurisdictions and in more densely populated unincorporated areas of the three counties. The data collected by the sensors can be viewed in real-time on our [website](#). An important observation we have gained through using the sensors is higher than expected measured PM<sub>2.5</sub> concentrations at the sensor located in Soledad, CA. This is being reviewed and may be due to agricultural burning combined with specific meteorological conditions. MBARD is also considering installing newly developed sensors by Clarity which can measure ozone. Finally, to enhance the public's access to data, MBARD is working with ESRI, our GIS map service provider, to create our own map of the sensor data in addition to the map available from Clarity.

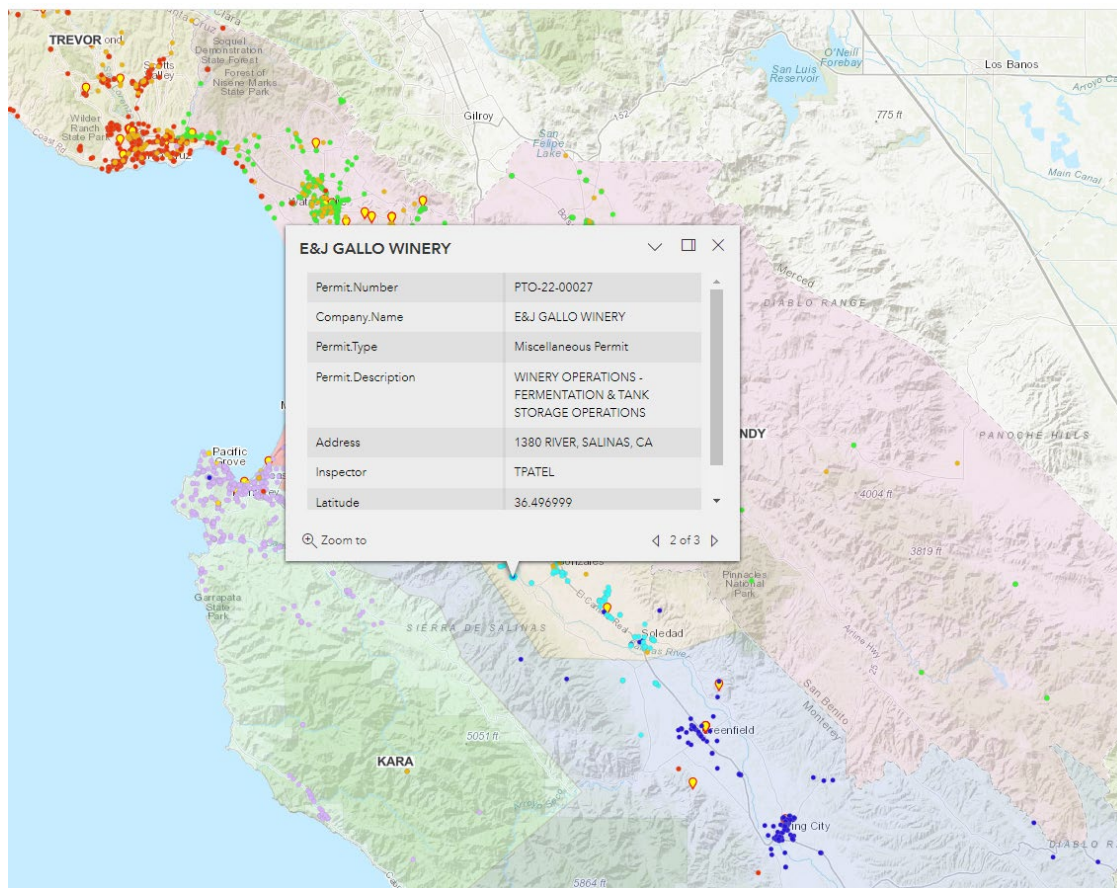
**Figure 1 Sensor Map****Permit Location Map**

MBARD has been working on improving a map showing the locations of permits within Monterey, San Benito, and Santa Cruz counties. We hired a Planner this year with GIS experience who has been able to update our inspector area and permit location map.

The map has a layer identifying the assigned inspector along with a layer showing the locations of the authorities to construct and permits to operate. Each dot on the map represents a permit and the user can click on the dot to obtain further information such as the permit number, company name, permit description, and address. MBARD staff are completing a review of the permit geolocations and plan to establish a link to the map from our website.



Figure 2 Permit Map



## Emission Inventory

To support the rollout of the criteria pollutant and toxics reporting regulation, MBARD staff have been working on enhancements to our permit database. This includes adding new data fields to capture information required to report, entering data into the database, and reviewing existing data in the database to ensure for example the units of measure are correct. MBARD currently has a job opening for an Air Quality Technician who will spend part of their time helping Engineering with the reviewing and updating data in the permit database. MBARD is hoping to be able to extract data from the permit database into a format that can be imported in HARP to create a transaction file to provide to CARB.

## 2.2 ACCOUNTING

MBARD submitted the reimbursement request for G20-CAPP-19-1 on March 31, 2023. The following summarizes the grant funds expended:

- Grant funds received as advanced payment: \$0
- Interest income: \$0
- Grant funds per disbursement request submitted March 31, 2023: \$93,959
- Grant funds remaining to be disbursed: \$0

### 3. Conclusion

MBARD is supporting the goals of AB617 by participating in BACT/BARCT meetings to remain current on lower emission technologies, seeking ways to improve communication to the public such as through Spanish language outreach, deploying PM2.5 sensors in disadvantaged communities to improve access to air quality data, creating a map which will allow the public to gain information about permitted sources, and supporting the regulated community with emission inventory reporting requirements.

This annual report documents MBARD's ongoing work to implement the Community Air Protection Program.