

Great Basin Unified Air Pollution Control District

AB 617 Grant Report Community Air Protection Program

Annual Grant Report for G18-CAPP-11

Fiscal Year 18/19
Grant Term 2019-2021

Report Date: January 27, 2021

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1.0 District's AB617 Annual Report – 2019-2021 Grant

As described in the Community Air Protection Blueprint (October 2018), the Great Basin Unified Air Pollution Control District's (District) goal for the program is to conduct community-level air quality monitoring, especially in those communities where little or no air quality monitoring has been conducted in the past. The District, though low in population density (2 persons/square mile), nonetheless has concerns that the air pollution impacts to those rural communities need to be evaluated. The AB617 program grant award has provided the resources to address this need. This document constitutes the District's second annual report for the G18-CAPP-11 grant. This report covers the time period from January 1, 2020 to January 15, 2021.

2.0 Background and Previous Work Completed

In 2018, the District outlined a community monitoring program including the identification of communities by District staff in which monitoring would be conducted and the development of a set of criteria that would be used to determine when monitoring would be conducted in a given community. In 2018 and 2019, the District deployed Purple Air PA-II PM sensors in twelve locations including communities and at existing District PM monitoring stations to use as quality control check sensors for the community monitoring network. The District also developed a webpage specific to the Community Air Protection Program and the District's use of low-cost sensors. Additional work included sensor maintenance, quality assurance work with the sensors, development of a zero air test kit and work to identify additional monitoring locations. Additional details can be found in previous grant reports.

3.0 Summary of Work Completed and Work in Progress

From January 1, 2020 to January 15, 2021 the following tasks associated with the Community Monitoring program were completed or work was started.

- Sensor Maintenance and Quality Assurance Work**
 In 2020, several sensors required replacement or maintenance. Issues have ranged from complete failure, to divergence of sensor channels, to connection and reporting issues. District staff was responsive to identifying and resolving all issues in 2020 to ensure the community monitors were active. Additional work has also occurred in 2020 to compare the low cost sensor data to the data collected from the District’s FRM/FEM monitors.
- New Monitoring Locations**
 In 2020, Purple Air sensors were deployed in the following 15 community locations:

<i>Location</i>	<i>County</i>	<i>Site Name</i>	<i>Deployment Date</i>
Pickel Meadows	Mono	MWTC - Pickel Meadows	9/5/20
Aspendell	Inyo	Aspendell	9/16/2020
Bishop/Meadowcreek	Inyo	Meadowcreek	10/7/2020
Chalfant	Mono	Chalfant Big Trees	10/8/2020
Death Valley	Inyo	Cow Creek DVNP	10/9/2020
Crowley Lake	Mono	CrowleyLake	10/14/2020
Olancha	Inyo	Olancha	10/15/2020
Fort Independence	Inyo	Fort Independence	10/16/2020
Starlite	Inyo	Starlite	10/16/2020
Deep Springs College	Inyo	Deep Springs College	10/27/2020
Alabama Hills	Inyo	AlabamaHills	11/6/2020
Lone Pine	Inyo	Lone Pine Monitor	11/12/2020
Lone Pine Downtown	Inyo	Lone Pine Downtown	12/9/2020
Round Valley	Inyo	Round Valley	12/29/2020
Coso Junction	Inyo	Coso Junction	10/15/2020 (V1) 10/22/2020 (V2)

Staff have identified a few remaining community locations with the District and will work to deploy sensors in the coming year.

4.0 Program Costs January 2020- January 2021

This document covers the time period from January 1, 2020 to January 15, 2021. A grant disbursement request form is being submitted along with this report.

COSTS	
Staff Hours <i>Please see Attachment A for details</i>	\$8,634.16
Additional Expenses (Travel, Sensors, Supplies) etc. <i>Please see Attachment A for details</i>	\$ 1,097.41
Total Cost Performed by District for this period	\$9,731.57
Invoiced to CARB	\$9,731.57

The G18-CAPP-11 grant has funds for \$36,994.00.

The first disbursement request was for \$3,714.34.

This is the second disbursement request.

Following this disbursement there will be \$23,548.09 remaining in the grant funds.

ATTACHMENT A- Staff Time and Expense Details

AB 617 Staff Hours January 1, 2020 to January 15, 2021										
Pay Period (only payperiods with hours shown)	Ann Logan		Kim Mitchell		Chris Lanane		Chris Howard		Travis Powell	
	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST
1/16-1/31/20	3	\$227.01	0.5	\$37.84	0	\$0.00	0	\$0.00	0	\$0.00
4/16-4/30/20	0	\$0.00	0	\$0.00	1.5	\$113.51	0	\$0.00	0	\$0.00
5/1-5/15/20	3.5	\$264.85	0	\$0.00	2	\$151.34	0.75	\$56.75	16	\$1,210.72
6/1-6/15/20	2	\$151.34	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
6/16-6/30/20	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	3	\$227.01
10/1-10/15/20	0	\$0.00	0	\$0.00	0	\$0.00	20	\$1,598.40	15	\$1,198.80
10/16-10/31/20	2.5	\$199.80	0	\$0.00	0	\$0.00	6	\$479.52	8	\$639.36
11/1-11/15/20	2	\$159.84	0	\$0.00	0	\$0.00	4	\$319.68	0	\$0.00
12/1-12/15/20	0	\$0.00	0	\$0.00	0	\$0.00	5	\$399.60	0	\$0.00
12/16-12/31/20	0	\$0.00	0	\$0.00	0	\$0.00	4.5	\$359.64	0	\$0.00
1/1-1/15/21	7.5	\$599.40	0	\$0.00	0	\$0.00	3	\$239.76	0	\$0.00
SUBTOTALS	20.5	\$1,602.24	0.5	\$37.84	3.5	\$264.85	43.25	\$3,453.35	42	\$3,275.89
TOTAL STAFF HOURS	109.75		FY 19/20 Staff Hourly Rate \$75.67 (Jan 1 to June 30, 2020) FY 20/21 Staff Hourly Rate \$79.92 (July 1, 2020 to Jan 15, 2021)							
TOTAL STAFF COST	\$8,634.16									
AB 617 Expenses										
Date	Cost	Category	Details							
10/16/20	\$32.66	Travel	Gas for Purple Air Installation in Independence							
10/16/20	\$41.10	Travel	Gas for Sensor Install/Maintenance							
11/25/20	\$203.06	Supplies	Supplies to repair existing units							
11/25/20	\$814.13	Sensors	3 New Purple air units							
1/6/21	\$6.46	Shipping	Shipping charges							
TOTAL EXPENSES	\$1,097.41									