

AB 617
Community Air Grants

**Summary of Proposed
Projects**

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¹ *Project awardees listed alphabetically.*

Background

Assembly Bill (AB) 617 continues California's environmental leadership in establishing innovative policies to improve air quality and reduce pollutants at a local level. It requires community-focused action to reduce air pollution and improve public health in the State's most impacted communities. The program is focused on reducing emissions and exposure to air pollution in communities and is comprehensive, including air monitoring, enhanced reporting, and emission control technology upgrades. The program places a strong emphasis on community engagement, recognizing that partnering with residents of impacted communities is a key element to developing and implementing an effective program.

AB 617 includes the Community Air Grants Program (Air Grants) which supports community efforts to participate in the AB 617 implementation process by building capacity to become active partners with government in identifying, evaluating, and reducing air pollution and exposure to harmful emissions in communities.

The FY17-18 budget included \$5 million for these grants from the Greenhouse Gas Reduction Fund. In response to the air grants solicitation, CARB received 65 applications, requesting \$18.9M in funding. Applications were received from communities around the State and included innovative proposals for engaging communities in AB 617's local air quality improvement process. To respond to this high demand, CARB selected 28 projects totaling \$10 million for funding. The additional funding of \$5 million worth of projects is contingent on the appropriation of those funds in the final fiscal year 2018-2019 budget bill passed by the legislature and signed by the Governor.

These projects are located in disadvantaged, low-income or tribal communities, and demonstrate partnership building or other forms of collaborative efforts. The initial air grants project-portfolio demonstrates geographic distribution from across the State including rural and urban locations, and several tribes. They include some communities well known for being heavily impacted by poor air quality as well as other communities that have not received as much attention.²

The Air Grants projects will support CBOs' participation in the implementation of AB 617, through the development of methods to acquire new or better information regarding air quality and related health impacts, as well as measures to reduce air pollution in over-burdened communities, including:

- Community-led air monitoring support
- Development of emission reduction action Plans
- Community training and education on AB 617 concepts
- Travel and logistical support for meetings

² No agreement between CARB and the proposed awardee is in effect until the agreement is signed by the proposed awardee and the authorized CARB representative.

The Air Grants will support community engagement and action in each community where they are established. They will strengthen the partnership between communities and agencies to better characterize the air quality, identify key emission sources, and take action to reduce emissions. The air grants go well beyond the limited number of communities for which community emission reduction programs are established in the early years of the program as they recognize that the vision of AB 617 is much broader.

The project summaries on the pages that follow provide a brief description of the community's project, the funding amount that the community requested, and their proposed timeline. Additionally, the partnerships are listed below the summaries. These partnerships vary from grantee/subgrantee associations, collaborators, additional funders, and regional partners for larger projects. More detailed descriptions for each of the projects will be provided on CARB's web site.

Big Pine Paiute Tribe of the Owens Valley

Summary:

\$102,933 / 3-year project timeline

Big Pine proposes to expand upon its existing monitoring plan, established with a federal Clean Air Act grant. The Tribe's concerns stem from two major sources: dust from surrounding land and smoke from wildfires. Under the Community Air Grant, the tribe plans to create a permanent monitoring station, building on its existing mobile monitoring project. The air quality information from this station will be updated every hour to the website that four other tribes in Owens Valley will develop. The information will also be shared with the local junior high school. Junior high school students will learn about air quality and its impacts on their health. Students will also maintain a flag program year round to advise locals of air quality status each day. This program aims to fill in gaps in the local air monitoring networks, both tribal and that of the Great Basin Unified Air Pollution Control District.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (educating students and citizens about air quality) and **Participatory** (Students will run an air quality flag program) and **Technical** (air monitoring).

Air District(s): [Great Basin Unified APCD](#)

Collaborations:

- Bishop Paiute Tribe
- Lone Pine Paiute and Shoshone Tribe
- Great Basin Unified Air Pollution Control District

Californians for Pesticide Reform (CPR)

Summary:

\$471,437 / 3-year proposed timeline

The project is located in the agricultural farmworker communities of the Central Coast and San Joaquin Valley, specifically in the counties of Kern, Tulare, Fresno, Monterey, Santa Cruz, Santa Barbara, and Ventura. This project will facilitate participation in public workshops by community members from seven highly polluted agricultural regions and potentially one urban Los Angeles region, while increasing overall capacity to monitor air quality and participate in emissions reduction planning. This project will focus on pesticide toxic air contaminants, which pose a significant health risk to farmworker communities and contribute to the development of criteria air pollutants. The project will increase overall knowledge of air quality issues among impacted agricultural communities and coordinate efforts with the San Joaquin Valley steering committees to be created under AB 617 to ensure the inclusion of pesticides as a key target in regional emissions reduction planning. CPR will facilitate the participation of at least 500 residents in pesticide air monitoring activities and community-based data collection efforts, recruit community partners in the Central Coast and Central Valley to conduct community-based pesticide air monitoring data collection. Using Pesticide Action Network's [Drift Catcher](#) methodology, they will conduct air monitoring at six sites at Central Coast and Central Valley locations in the first year, and ten sites each of the following two years, and summarize air-monitoring data collected in technical reports and in regional briefs for sharing with the communities involved. They will share data with relevant steering committees created under AB 617, and with the California Department of Pesticide Regulation, CARB, relevant County Agricultural Commissioners, and respective regional air pollution control districts.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (broad community outreach and education efforts), **Participatory** (participants in community-based research efforts), and **Technical** (air monitoring).

Sub-Grantee(s): Californians for Pesticide Reform (Pesticide Action Network North America is grantee)

Air District(s): [San Joaquin APCD](#)

Collaborations:

- Safe Ag Safe Schools in Monterey and Santa Cruz Counties
- Tulare County Coalition Advocating for Pesticide Safety
- Central California Environmental Justice Network
- Center on Race Poverty & the Environment
- Physicians for Social Responsibility – Los Angeles
- East Yard Communities for Environmental Justice

Casa Familiar

Summary:

\$492,269 / 2-year proposed timeline

Project location is San Ysidro, in and around the U.S. Port of Entry at San Ysidro. The project will build off successful partnership model for ongoing engagement with community residents developed by Casa Familiar and its academic partners, San Diego State University and the University of Washington. The project will conduct community-to-community outreach, technical trainings, and sustain and expand current community-led air monitoring network. Project includes a community steering committee made up of at least ten residents and a technical advisory group made up of experts primarily from academia and government agencies, to guide all phases of community air monitoring activities. The project aims to provide residents and governmental entities in border area, data to understand air quality impacts from vehicular border crossings. Data will be used to develop public health initiatives and projects aimed at reducing exposure in the San Ysidro border community. The project will hold at least three community-training events, sustain 13 current monitoring sites, and deploy 100 new ultra-low cost PM sensors. The project includes a co-location plan in conjunction with SDAPCD, for hardware calibration and performance purposes, and a QA/QC development plan for monitoring. Project will also include language and visualization tools that are key to assuring all program concepts are communicated effectively in the border region, for all stakeholders.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (community meetings, flyers, popular education models to support advocacy) and **Participatory** (community steering committee, hiring consultants for TA, community needs assessments) and **Technical** (community air monitoring).

Air District(s): [San Diego APCD](#)

Collaborations:

- San Diego State University
- University of Washington
- IVAN Network
- AIRE (Allies in Reducing Emissions, a California five-region advocacy collaborative)

Central California Asthma Collaborative

Summary:

\$499,993 / 2-year proposed timeline

The project is located in eight counties in the San Joaquin Valley: San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare, and Kern. The project will focus on historically neglected communities by providing residents with air quality information and building collaborations with community-based organizations to ensure that residents are part of the conversation. The project will provide assistance to community residents in understanding both the sources and health impacts of local pollution and the potential policies necessary to address them. It will provide additional community air monitoring to acquire new air quality information and relay it to the community. The project will develop materials that will be used to educate residents and community groups, schools, businesses and other stakeholders about community air quality issues and ways to be involved in the development of community air monitoring networks and emission reduction plans. The project also includes the design and implementation of a community-led air-monitoring network that will collect PM and methane data in communities that are heavily impacted by air pollution. The project will include inventorying existing health, air, climate and air pollution data sets as well as the emissions history and permitted stationary and mobile sources affecting the communities. In addition, the project will include evaluation of various means and measures to reduce pollution. Finally, it will establish different methods for convening stakeholders to facilitate participation in the development of community assessments, emission reduction plans and selection of communities to deploy a community air-monitoring network.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (develop educational materials), **Participatory** (community meetings), and **Technical** (air monitoring).

Air District(s): [San Joaquin Valley APCD](#)

Collaborations: Community-based environmental justice organizations across the San Joaquin Valley

- Catholic Charities Diocese of Stockton
- Valley Improvement Projects
- Leadership Counsel
- Madera Coalition for Community Justice
- Center on Race Poverty & the Environment
- San Joaquin Valley Air Pollution Control District
- Comité Civico del Valle
- California Environmental Health Tracking Program

Charitable Ventures of Orange County

Summary:

\$185,118 / 3-year proposed timeline

Project location is in Madison Park at James Madison Elementary, 1124 E Hobart St, Santa Ana. The Madison Park Neighborhood Association (MPNA) created the Getting Residents Engaged in Exercise and Nutrition (GREEN) Program in collaboration with the Santa Ana Unified School District, the Santa Ana Department of Parks and Recreation and UC Irvine. MPNA will support logistical and technical assistance to expand its engagement and create a plan for community-based air monitoring. The project aims to connect with other resident groups along the corridor primarily through outreach to adjacent neighborhood associations, school parents, and door-to-door. The project will continue community outreach and organizing (forums and one-on-one engagement), development fact sheets, and through GREEN, provide students and parents with air quality information. MPNA will conduct community-based participatory research to understand the impacts of air pollution to their community, implement data mapping to understand the existing data on air pollution and its effects, and to identify data gaps and opportunities for community monitoring.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (inviting SCAQMD to provide two information forums), **Participatory** (steering committee – an estimated 20 residents), and **Technical** (data collection and analysis training, designing a participatory research project, and formulating a community air monitoring and emissions reduction plan).

Air District(s): [South Coast AQMD](#)

Collaborations:

- California Endowment Santa Ana Building Healthy Communities
- Santa Ana Unified School District
- Saint Joseph Health Community Building Initiative
- UC Irvine Pediatric Genomic Research Center
- Environmental Law Clinic

Citizens for Responsible Oil and Gas (CFROG)

Summary:

\$496,923 / 2-year proposed timeline

The project location is Ventura County. The project will focus on monitoring to identify the air emission sources and fill existing data gaps through a community-based research project in three neighborhoods (West Ventura, South Oxnard, Ojai Valley) where pollution burdens are the greatest. The project will foster community science to identify sources of pollution and document residents' concerns about air toxics hazards. The project aims to develop air pollution reduction policies; facilitate community member awareness and understanding of how air pollution affects health in project neighborhoods; facilitate community members' active participation and engagement with technical experts and decision makers; and fill information gaps regarding sources and levels of air pollution, and location of sensitive receptors. The project will utilize cutting-edge technology and citizen science, paired with oversight and technical assistance. It will foster informed decision-making, collection of previously unknown data on air quality issues associated with natural oil/gas seeps, industrial activities, and vapors emitted from smoldering seeps, developing a more complete understanding of air pollution sources.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (development of community member awareness and understanding of how air pollution affects health), **Participatory** (community members' active participation and engagement with technical experts and decision makers), and **Technical** (air monitoring, data collection).

Air District(s): [Ventura County APCD](#)

Collaborations:

- Coalition for Clean Air
- California State University Channel Islands
- Kids Making Sense
- Sonoma Technology, Inc.

Clean Water Fund

Summary:

\$380,966 / 2-year project timeline

The project location is in Lost Hills, in the San Joaquin Valley. The Clean Water Fund began working with the community of Lost Hills in 2016 to engage the community and improve their air quality and quality of life. The project builds on existing work, aiming to strengthen community capacity, and to develop and strengthen relationships with regulatory agencies and other NGOs. The project also aims to identify types, levels, and sources of criteria pollutants and toxic air contaminants, to improve community health, and to become a model for other disadvantaged communities. Through participatory and technical methods, such as developing a website that presents findings and deploying sensors that detect levels of ozone, NO₂, PM_{2.5/10}, methane and volatile organic compounds (VOCs), the Clean Water Fund will help the community avoid exposure, learn what is causing the pollution, identify priority issues, insights and advocate for improvements.

Air Grants Conceptual Category Integration:

Project contains elements of **Participatory** (planning and conducting community meetings, recruiting more resident to participate in Lost Hills en Acción, planning and conducting community trainings, planning and conducting policy advocacy, educating the broader public) and **Technical** (kickoff meeting, planning and logistics, system development: monitor development, website development, installation, operation and maintenance: data review and calibration, reporting).

Air District(s): [San Joaquin Valley APCD](#)

Collaborations:

- Blue Tomorrow
- Lost Hills en Acción
- Center on Race Poverty & the Environment

Comité Civico del Valle, Inc.

Summary:

\$500,000 / 3-year project timeline

This project aims to add 15 monitors to expand the existing [IVAN air network](#) into the eastern Coachella Valley, effectively covering the entire Salton Sea Air Basin. It will also provide methane monitoring, as this is a growing concern of the residents, and methane is not currently monitored. Through both the addition of PM2.5 and PM10 sites and the new methane sites, the CCV community steering committee will continue to educate residents on air pollution and incorporate new information about methane emissions. Residents will play a key role in selecting sites and implementing new monitoring as well.

Air Grants Conceptual Category Integration:

Project contains all elements of **Informational** (community meetings and outreach), **Participatory** (CSC assists in selection of sites and design the communication strategies), and **Technical** (expansion of the IVAN Network and addition of methane monitoring network).

Air District(s): [Imperial APCD](#) and [South Coast AQMD](#)

Collaborations:

- Allies in Reducing Emissions (AIRE Collaborative)
- Air Quality School Flag Program (Imperial County)
- California Environmental Health Tracking Program
- Community Advisory Committee – Our Roots, Seeley Citizens United and Brawley Union High School

Comité Pro Uno

Summary:

\$500,000 / 3-year proposed timeline

The project will identify and evaluate toxic pollutants and develop action plans for reducing local air pollution. Focused in Maywood, the project will begin with Heliotrope Elementary School, which is close to industrial facilities (including chrome plating) and the I-710 freeway. The project involves monitoring for PM2.5, but also focuses on toxic metals (particularly hexavalent chromium, among others) and diesel PM. The project will directly engage the community in air monitoring to bolster local capacity, allowing community members to volunteer to host and maintain a monitor. Finally, the project aims to develop a mitigation action plan from the results of both the monitoring and community engagement. Key to this project is the monitoring and continual feedback from residents to find mitigation measures together with local government.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (regularly scheduled neighborhood meetings to educate, engage and solicitation for volunteers), **Participatory** (community planning, groundtruthing, and maintenance of the monitors), and **Technical** (monitoring and analysis to relay back to the informational and participatory categories, leading to emissions reductions).

Sub-Grantee(s): Comité Pro Uno (Coalition for Clean Air is grantee)

Air District(s): [South Coast AQMD](#)

Collaborations:

- Los Angeles Unified School District
- Sonoma Technologies, Inc.

Communities for a Better Environment (CBE)

Summary:

\$97,857 / 2-year proposed timeline

Project will be implemented in both the Bay Area as well as Los Angeles. The project will increase awareness of community air toxics issues and support engagement with residents of southeast Los Angeles County, Wilmington, Richmond, and Rodeo. The project also aims to increase leadership skills and the capacity of residents in these communities to participate in governmental decision-making processes more effectively. CBE will develop written technical and community comments to submit to the state, SCAQMD, BAAQMD, and potentially to additional government entities (cities or counties) on emissions reductions, pollution prevention measures, and health standards to substantially reduce cumulative impacts of mobile sources, oil drilling, oil refining, and other local stationary sources in these communities. The project will involve participation in environmental justice coalitions and sharing information on AB 617 development and implementation.

Air Grants Conceptual Category Integration:

Project contains the **Participatory** (increasing awareness of AB 617, providing public comment to CARB) element.

Air District(s): [Bay Area AQMD](#) and [South Coast AQMD](#)

Collaborations:

- California Environmental Justice Alliance (CEJA)

Community Focus (a project of the Tides Center)

Summary:

\$229,698 / 2-year proposed timeline

The project location is in Pittsburg, California. The *Youth Uniting Communities for Clean Air (YUCCA)* project is intended to support environmental education, air quality measurement, and community engagement. YUCCA combines [Kids Making Sense \(KMS\)](#) environmental education program with community engagement geared toward reducing PM exposure. The project will encompass hands-on education, data collection and analysis, and student engagement with the community and civic leaders. The program will be implemented at Pittsburg middle schools and high schools. The project deepens the KMS program by educating students and the community about air pollution sources and by hosting a Clean Air Science Fair featuring student projects. The student projects will consist of data collection with low-cost sensors (PurpleAir Sensors), weather stations, and KMS AirBeams, and help inform community emission reduction strategies.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (teacher training, Clean Air Science Fair), **Participatory** (community needs assessment, develop and implement projects to reduce emissions), and **Technical** (student air monitoring and data interpretation).

Air District(s): [Bay Area AQMD](#)

Collaborations: Sonoma Technology, Inc.

El Pueblo Para el Aire y Agua Limpia

Summary:

\$150,000 / 2-year proposed timeline

The project location is Kettleman City. The project aims to foster public participation to improve air quality and community health, by increasing public awareness and understanding of community air quality issues, supporting public participation in decision-making processes, improving collaboration among advocacy groups, assessing community needs, and providing education on how residents can effectively participate in the implementation process. The project has four main components: 1) community-wide outreach and education including an annual health fair; 2) creating the Community Health and Environmental Justice Leadership Academy, a 12-week academy to be held twice annually to train ten community residents, including youth, on leadership development; 3) partnership and coalition-building, including community member travel to AB 617 meetings and workshops; and 4) data gathering which includes a pilot community PM air monitoring network using three Dylos monitors. Upon completion of the project, the community will have a better understanding of the AB 617 process and air-related issues, be equipped to engage with agencies more effectively, and have more tools to engage in the development of emission reduction strategies.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (logistical support /travel for community members; surveys; community meetings; flyers) and **Participatory** (groundtruthing or community inventory exercises, community needs assessments, health study). Additionally, project will launch a pilot air-monitoring component, which is included in the **Technical** category.

Sub-Grantee(s): El Pueblo Para el Aire y Agua Limpia (Greenaction is grantee)

Air District(s): [San Joaquin Valley APCD](#)

Collaborations:

- Comité Civico del Valle
- California Environmental Health Tracking Program
- Central Valley Air Quality Coalition
- California Environmental Justice Coalition
- Academic partner for health survey/study (to be named)

Environmental Health Coalition (EHC)

Summary:

\$500,000 / 2-year proposed timeline

The project locations are San Diego city/county neighborhoods of City Heights, Sherman Heights, National City, and Barrio Logan. The project proposes to increase residents' understanding of air quality issues in their communities and resulting health risks, leadership development to engage residents in community advocacy on AB 617, and community-based research on local air quality and development of resident-scientists. Primary mechanism for engaging residents will be through community action teams. The project provides for at least five community workshops for the public. EHC will also build a task force, the Healthy Air Network, across the focus communities for monitoring and emissions reductions education and actions. The project also includes the development of a curriculum for inclusion in EHC existing leadership program SALTA (Salud Ambiental Lideres Tomando Acción). Residents will be trained on data collection and will conduct groundtruthing. The project plans also includes installation of low-cost sensors (PurpleAir/AirBeam) at four area schools and additional monitors in Barrio Logan. San Diego Air Pollution Control District has agreed to partner for collocation of monitors and as a technical advisor.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (community meetings; flyers; popular education models to support advocacy) and **Participatory** (community steering committee, groundtruthing) and **Technical** (community air monitoring).

Sub-Grantee(s): Barrio Logan College Institute

Air District(s): [San Diego APCD](#)

Collaborations:

- California Environmental Justice Alliance (CEJA)
- Perkins Elementary School
- Kimball Elementary School

Fresno Metro Ministry

Summary:

\$150,000 / 1-year proposed timeline

The project location is off of the southern 1.5 miles of Blackstone Avenue, in the two communities surrounding Heaton and Susan B. Anthony Elementary Schools. Known as the Fresno Kids for Clean Air project, the project will focus on community engagement on air quality and local air emissions. The project will form a community steering committee, which will prepare an initial neighborhood air quality profile. The steering committee will implement public education in target neighborhoods, conduct community workshop in conjunction with a neighborhood needs assessment, and in turn refine the neighborhood air quality profile. Ultimately, they will produce a Fresno Kids for Clean Air Roadmap (action plan). This project is unique in that it engages children, and their parents at the same time by focusing on the schools and the neighborhoods in which the children actually live. Not only will the program educate community members, it will empower them to be active partners and advocate for their air quality. The project aims to provide a structured and replicable process for conducting culturally-relevant community engagement activities, assisting other disadvantaged communities throughout the state.

Air Grants Conceptual Category Integration:

Project contains elements of both **Informational** (community meetings, flyers, popular education models to support advocacy) and **Participatory** (hiring consultants for TA, groundtruthing, community charrettes, community surveys).

Air District(s): [San Joaquin Valley APCD](#)

Collaborations:

- Fresno Unified School District
- Fresno City College
- Fresno County Department of Public Health
- Central California Environmental Justice Network
- City of Fresno
- Fresno Council of Governments
- Fresno housing Authority
- Centro la Familia
- Centro Binacional para el Desarrollo Indígena Oaxaqueño
- Cultiva La Salud
- San Joaquin Valley Environmental Justice Collaborative

Greenaction for Health and Environmental Justice

Summary:

\$500,000 / 3-year project timeline

Located in Bayview Hunters Point (BVHP), Greenaction's project will support this disproportionately impacted community in San Francisco. This project will provide technical assistance and capacity-building necessary for local residents to become active partners with government to help identify, evaluate, and reduce air pollution and exposure to harmful emissions. Through the establishment of a community PM air monitoring program, with data integrated into the BVHP Environmental Justice Response Network/IVAN website, and along with community engagement and advocacy, Greenaction will work with CARB and the air district to identify and lower air pollution emissions in BVHP.

Air Grants Conceptual Category Integration:

The project contains all conceptual elements, including **Informational** (community advisory group, multilingual fact sheets and ongoing community education outreach), and **Participatory** (community advisory group, Bayview Hunters Point Youth Environmental Justice Air Quality Leadership Academy, trainings provided by California Health Tracking Program and Comité Civico, Civic engagement with BAAQMD and CARB on AB 617 implementation and air quality) and **Technical** (BVHP Environmental Justice Response Task Force/IVAN, community air monitoring, air quality data analysis, pollution mapping and health information).

Air District(s): [Bay Area AQMD](#)

Collaborations:

- Comité Civico del Valle
- California Environmental Health Tracking Program
- Bayview Hunters Point Community Advocates
- Literacy for Environmental Justice
- Bayview Hill Neighborhood Association
- Bayview Hunters Point Mothers & Fathers Committee for Health and Environmental Justice

Groundwork Richmond, Inc.

Summary:

\$499,006 / 3-year proposed timeline

The project location is Richmond, specifically in its parks and public facilities. The project will focus on air monitoring in parks near the intersection of the Interstates 80 and 580 (Eastshore, Miraflores, State Court, JFK, MLK, Boorman, et al.) and along the Richmond Greenway Trail, traversing the Iron Triangle, Coronado, Santa Fe, Richmore/Metro Square, Pullman and Park Plaza neighborhoods. The project will collect air quality data in disadvantaged communities to fill data gaps in existing air monitoring networks. The collection of air quality data will be through a community-based workforce development program that will engage residents who want to learn more about air quality. The project will create education and training programs. The project will also create an easily accessible data-reporting portal along with a smart phone app that will provide residents and commuters with real-time air quality data. The project will deploy 50 remote monitors across currently unmonitored city parks, conduct 70 high-volume-sampling measurements for toxic metals speciation and provide relevant project-based learning opportunities for high school and college-age youth. Using Clarity Movement sensor nodes, monitoring emphasis will be on PM10, PM2.5 and toxic metals. Groundwork Richmond will deploy a spatially and temporally dense air monitoring sensor network and render a high-resolution air quality model (SIRANE).

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (community and web-based outreach), **Participatory** (train residents to collect air quality data and use air quality app), and **Technical** (air monitoring network).

Air District(s): [Bay Area AQMD](#)

Collaborations:

- City of Richmond
- Ramboll

Leadership Counsel for Justice and Accountability (a project of the Tides Center)

Summary:

\$150,000 / 2-year proposed timeline

Project location is in the San Joaquin Valley and the Eastern Coachella Valley. The project will engage multiple communities such as the unincorporated Merced County community of Delhi, South Merced, southwest Fresno and other communities to ensure effective community engagement and the incorporation of community priorities in response to AB 617. The project will focus on increasing participation of under-represented and over-burdened communities in implementation, including data gathering, data analysis, and air monitoring. The project will improve access to community-owned air quality data through community capacity building. Through advocacy, the project will ensure strong monitoring and emissions reduction plans, and sound local land use and transportation planning practices. Community outreach will be conducted through phone and in-person contact through door-to-door outreach, regular community meetings and creating educational materials. The project also calls for gathering and analyzing data from various monitoring systems to develop strong regulatory, enforcement and incentive mechanisms for adoption in the statewide community reduction strategy.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (community outreach, hosting community meetings, create and provide educational materials), and **Participatory** (ensure information is accessible and participation in government workshops and hearings).

Air District(s): [San Joaquin APCD](#)

Collaborations: Asian Pacific Environmental Network (APEN)

Legacy LA Youth Development Corporation

Summary:

\$387,189 / 15-month proposed timeline

The project location is the Ramona Gardens public housing development in the Boyle Heights neighborhood of Los Angeles. The project involves the development of air pollution reduction measures to be integrated into the Proposed Natural Park at Ramona Gardens to improve air quality, reduce community exposure to criteria air pollutants and improve public health. The project will also facilitate the development of community partnerships and collaborations. The project will compile publicly available data on public health impacts from air pollution sources and develop informational materials with graphics, engage residents concerning long-term public health impacts of air pollution exposure and develop air pollution reduction measures for the [Proposed Natural Park at Ramona Gardens](#). The qualitative review of air pollution and greenhouse gas impacts of air pollution reduction measures for the Natural Park at Ramona Gardens will provide the foundation for preparation of a technical report. The project involves building a coalition of stakeholders and partnerships, facilitation of community interaction with government agencies, and written action plans integrating the technical report and community member recommendations.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (development of plain English informational materials translated into Spanish), **Participatory** (development of air pollution reduction measures/community-focused actions), and **Technical** (collecting and analyzing air quality data).

Air District(s): [South Coast AQMD](#)

Collaborations:

- Ramona Gardens Residents Advisory Council
- Community Conservation Solutions
- VS2 Consulting, Inc.
- Land IQ – Soil & Native Habitat Restoration
- WSP – Air Quality

Madera Coalition for Community Justice

Summary:

\$23,189 / 1-year proposed timeline

The project location is in the Madera County communities of Madera, Fairmead, La Vina, Parkwood, and Parksdale. The project will involve recruiting and training a cohort of 10 to 12 youth leaders who will gain the knowledge, skills, and resources to provide education and outreach on air quality generally and AB 617 specifically to student peers, parents and community members, and identify ways for them to address these issues in their personal lives and at local and regional levels. The project activities will be designed, planned and implemented by youth, with the support and guidance from collaborators. The community education and outreach will include presentations to three (minimum) schools, five parent groups and two community groups, dissemination of info-letter/update flyer or newsletter, letters to the editor and guest columns in local newspapers, creation of a website and speaking on a Spanish radio show.

Air Grants Conceptual Category Integration:

Project contains elements of both **Informational** (targeting community education and outreach efforts for Madera residents) and **Participatory** (support collaborative partners in their advocacy efforts engaging with CARB).

Air District(s): [San Joaquin APCD](#)

Collaborations:

- Central California Environmental Justice Network (CCEJN)
- Central California Asthma Collaborative (CCAC)
- Central Valley Air Quality Coalition (CVAQ)
- Leadership Counsel for Justice and Accountability
- California Rural Legal Assistance (CRLA)

Pala Band of Mission Indians

Summary:

\$281,189 / 2.5-year proposed timeline

The proposed project, *Southern California Tribal Community Air Monitoring Project*, is located on the Pala Reservation (north San Diego County). The project proposes to launch a community-scale air quality monitoring network to expand current monitoring at the Pala Reservation, leverage resources and expertise of the Pala Tribe and build a collaborative that includes other tribes that may be able to host a monitor and do not otherwise have access to real-time air quality data for their area. Specifically, the project will deploy six low-cost air quality sensors (Alphasense) to monitor for NO₂, O₃, PM_{2.5}, and PM₁₀ at the reservation, or at neighboring tribal reservations, in collaboration with those tribes. Data will be transmitted through a cellular network and displayed on a website accessible to tribal community members. The project also plans the co-location of one monitor at a CARB monitoring station for calibration and QA/QC purposes.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (community meetings to educate tribal members on results from monitoring network, tribal to tribal coalition building/outreach) and **Participatory** (hiring consultants for technical assistance), and **Technical** (community air monitoring).

Air District(s): [San Diego APCD](#)

Collaborations: Blue Tomorrow

Physicians for Social Responsibility – Los Angeles

Summary:

\$500,000 / 1.5-year proposed timeline

Titled *The South Central Los Angeles Air Quality Project*, this project is located in south and southeast Los Angeles. Emissions sources in the area include auto-body shops and oil and gas facilities. The Project aims to: 1) strengthen the knowledge and capacity of residents to identify the sources and character of air pollution in the community; 2) facilitate stakeholder engagement in policy processes in order to address sources of emissions and improve air quality; and 3) identify and advance preliminary strategies to influence Community Emissions Reduction Programs. The project includes community education and technical training, data visualization, data analysis and reporting, facilitating community-regulatory participation and assessment of best available emissions control technology and monitoring options. The project aims to cultivate at least 40 community leaders through an “Air Quality Academy,” focusing on air quality, health impacts, and environmental impacts. The project includes community air sampling at volunteer residences, it also incorporates groundtruthing to identify previously unidentified sources of pollution in community and creates a community violation reporting system in the southeast LA community. A working group will be established to monitor the reporting system.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (community meetings; educational materials) and **Participatory** (groundtruthing, hiring consultants for TA) and **Technical** (community air monitoring).

Sub-Grantee(s): SCOPE (Strategic Concepts in Organizing and Policy Education) and Community Health Councils

Air District(s): [South Coast AQMD](#)

Collaborations:

- University of Southern California
- UCLA
- Occidental College
- LA Works

Physicians, Scientists, and Engineers for Healthy Energy

Summary:

\$500,000 / 3-year proposed timeline

The project is located in Richmond, North Richmond, and San Pablo just northeast of the Chevron refinery. The project involves a longitudinal air monitoring study for at least two years, including data analysis. The project proponents will purchase 52 sensors units (likely the Aeroqual AQYI model with O₃, NO₂, PM2.5, PM10, temperature, humidity, and added VOC sensors). They will host community meetings jointly with the Asian Pacific Environmental Network to discuss siting of the air monitors and well as to raise public awareness of the relationship between air quality and human health and to increase community engagement in CARB policy conversations.

Air Grants Conceptual Category Integration:

Project contains elements of **Participatory** (community involvement and participation in the monitor siting and installation), and **Technical** (hands-on involvement in data collection and visualization).

Air District(s): [Bay Area AQMD](#)

Collaborations: Asian Pacific Environmental Network (APEN)

Regents of the University of California, on behalf of its Riverside Campus

Summary:

\$500,000 / 3-year proposed timeline

The project is focused on Riverside's J.W. North High School and the surrounding disadvantaged community. The project involves the development of community involvement strategies and data collection to gather neighborhood-level information on diesel PM levels in and around growing diesel-fueled goods movement operations in the area. Data collection will include black carbon monitoring to better understand neighborhood impacts of diesel truck traffic in the community. The project will convene a partnership of local air quality understanding, community engagement, and health (an Engagement Resource Collaborative or ERC). The ERC will authentically engage residents of the community by hosting Community Conversations to gather input, create awareness, and provide information. The Riverside Unified School District will also host guest science and health professional speakers to present air quality basics and teach students how they can advocate for a healthier environment in their neighborhood or city. Finally, the project will monitor black carbon emissions to better understand neighborhood impacts of diesel truck operations in this community.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (outreach and education efforts), **Participatory** (outreach, education, and data collection), and **Technical** (data collection and community air quality science experiments).

Sub-Grantee(s): NAACP, Riverside Branch and Riverside Unified School District

Air District(s): [South Coast AQMD](#)

Collaborations: Coalition for Clean Air

Rose Foundation for Communities and the Environment

Summary:

\$149,915 / 1-year proposed timeline

The project location is Oakland. New Voices Are Rising is a standing program of the Rose Foundation that seeks to increase civic participation among youth in disadvantaged communities. This grant will fund a new initiative within that program, the "Just Breathing" project, which will increase participation in AB 617 implementation among Oakland youth, along with their families, friends and other community members. The project seeks to bring youth and community perspectives into the community air protection planning process and aims to build a genuine partnership process, by engaging youth and community members along with agencies and local government in improving air quality. Project will engage students and community partners in West Oakland neighborhoods that are heavily impacted by pollution from the Port of Oakland and by other local freight infrastructure to map out plans for tree plantings to reduce community exposure to diesel pollution. The project will also engage students and community partners in East Oakland to conduct health surveys and air pollution monitoring to ensure that East Oakland's community concerns are effectively raised and addressed in the development of statewide implementation strategies, in the selection of priority communities, and, ultimately, in the development of community air protection plans for East Oakland.

Air Grants Conceptual Category Integration:

Project contains only the **Participatory** element (engaging students to conduct health surveys).

Air District(s): [Bay Area AQMD](#)

Collaborations:

- West Oakland Environmental Indicators Project
- Rooted in Resilience
- Healthy Havenscourt Collaborative
- East Bay Academy of Young Scientists (EBAYS)
- Communities for a Better Environment

San Joaquin Valley Latino Environmental Advancement and Policy (Valley LEAP)

Summary:

\$499,993 / 3-year proposed timeline

The project will take place in the southwestern portion of Fresno County and the whole of Kings County. The project will establish a 20-monitor community-based monitoring network building off the existing PM 2.5 monitor already installed and operating in Huron. The project will include outreach and educational materials in neighborhoods where they will deploy monitors, convening a community steering committee to take part in identifying and determining siting locations, using a community-driven process. The project will maintain the IVAN reporting branch of the IVAN program and continue Environmental Justice Task Force meetings to keep community engaged in environmental justice issues within their neighborhoods. Valley LEAP will work in schools in Kings County to raise awareness of the local monitoring effort by creating school flag programs. The project will also integrate a new methane monitoring system. The methane monitoring system will include five methane monitors, which will be comprised of multiple components including the Alphasense methane sensor, temperature and humidity sensors, circuit board and microcontroller, cellular modem, and enclosure. This will entail gathering information related to methane (i.e., regulations and standards, health effects, and existing real-time monitoring efforts) to inform decisions around monitor siting, data processing, and selection of metrics. Monitoring and meteorological data will be sent to the remote IVAN server. Training on basic installation and operation will be provided to the Valley LEAP staff with the assistance of Comité Civico del Valle.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (surveys, factsheets, other community outreach materials), and **Participatory** (subcontract of technical assistance groups for methane monitor assessment and direction as well as training LEAP in assembly and maintenance) and **Technical** (air monitoring support and expansion of particulate matter and methane monitors).

Sub-Grantee(s): Valley LEAP (Comité Civico de Valle is grantee)

Air District(s): [San Joaquin APCD](#)

Collaborations:

- Comité ALMAs (Avance Latino por un Mejor Ambiente or Latino advancement for a better environment)
- Promotoras VERDES (Voice Education Responsibility Dignity Empowerment and Sustainability)

Special Service for Groups, Inc. (SSG)

Summary:

\$301,755 / 2-year proposed timeline

Special Service for Groups is a Los Angeles-based organization dedicated to social and economic justice, created to serve Latino youth in the wake of LA's famed "zoot suit riots." Titled *Clean Air SGV* (San Gabriel Valley), the project is located in Alhambra and Monterey Park. The project will educate and encourage residents to advocate for policy change that will lower levels of PM2.5 and related negative health impacts in these communities. Through air monitoring and data collection, Clean Air SGV will guide residents in developing air quality priorities for their communities. The project calls for creation of an educational curriculum that will teach air quality basics. Major outcomes of project include: engaging 200 community residents and educating them on local air quality issues; identifying three community air quality policy goals; working with eight to ten local officials as potential campaign partners; collaborating with local officials to push forward at least one policy change based on reducing PM2.5 and negative health impacts in the Clean Air SGV communities. SSG deployed 40 PurpleAir monitors in January 2018, working with South Coast Air Quality Management District through the district's USEPA STAR grant. This grant will build on this work, using technical components to inform its AB 617 policy campaign.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (community meetings; educational materials) and **Participatory** (hiring consultants for TA), and **Technical** (community air monitoring).

Air District(s): [South Coast AQMD](#)

Collaborations:

- Asian Pacific Islander Forward Movement (division of SSG)
- University of Southern California Keck School of Medicine (Division of Environmental Health)
- Pitzer College, Intercollegiate Department of Asian American Studies

Twenty-Nine Palms Band of Mission Indians

Summary:

\$395,386 / 3-year proposed timeline

The project is located on the tribal lands of the Cabazon Band of Mission Indians, adjacent to the Twenty-Nine Palms Reservation. The project aims to place a new air quality PM10/PM2.5 monitoring station at the Cabazon Tribal Government complex, where it will have surveillance coverage and accessibility for routine maintenance. The data collected from the station will be shared online, and the Twenty-Nine Palms Band of Mission Indians (Tribe) will conduct community outreach on a quarterly basis to share air quality data collected and teach residents how to access the data and sign-up for alerts. The intended beneficiaries of this project span beyond the general membership of the Tribe to the communities of the eastern Coachella Valley, and Imperial Valley, including other federally recognized tribes (i.e., Torres Martinez Desert Cahuilla Indians, Cabazon Band of Mission Indians, and Augustine Band of Cahuilla Indians) therefore outreach will be conducted in the Coachella and Imperial Valleys. The monitoring station established would be of the Federal Equivalent Method (FEM) PM2.5 and PM10, and meteorology using a T640X FEM instrument. The tribe will build capacity to assess changes in air quality through training and hiring of technical experts and provide quarterly assessments and analysis of the data. Once the monitoring station is established, the tribal members of both tribes will be trained on the operation of the station by an air-monitoring technical consultant.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** (outreach at community events, information posted on the Tribal Government website), **Participatory** (building capacity), and **Technical** (staff to be trained on the operations of the station).

Air District(s): [Imperial APCD](#) and [South Coast AQMD](#)

Collaborations:

- Cabazon Band of Mission Indians

West Oakland Environmental Indicators

Summary:

\$499,712 / 2-year proposed timeline

The West Oakland Environmental Indicators project proposes a community-led air monitoring project and data portal. The project will aggregate air quality data and make it readily available to West Oakland communities at risk. The online portal will provide public accessibility to detailed local air quality information. The project will develop and promote the new portal via community-based user focus groups, a multimedia communications program, and door-to-door user surveys. The project will enable active community participation, including outreach events, written communications and primary research surveys, informing planning and ongoing use of an EPA-reviewed technical platform. The project includes deployment of mobile and stationary nodes to measure PM2.5, CO₂, CO, NO₂, NO, O₃ as well as temperature, pressure, and relative humidity.

Air Grants Conceptual Category Integration:

Project contains elements of **Informational** and **Participatory** (awareness-building sessions, community-driven portal development, and field-based data collection) and **Technical** (technical requirements gathering, air quality data portal and air quality monitoring and mapping).

Air District(s): [Bay Area AQMD](#)

Collaborations:

- Rising Sun Energy Center (Rising Sun)
- Aclima