

## **EXHIBIT C1 - Scope of Work**

### **Scope of Work**

#### **Task 1: Work Plan Development**

This grant proposal contains a detailed scope of work with project tasks and proposed milestones for each. However, a much more detailed work plan based on the grant proposal work plan will be developed by Greenaction and project partners once grant approval is received. Greenaction's Executive Director/Co-Project Manager will be responsible for implementing this task.

#### **Task 2: Monitoring**

##### **Element 1: Community support and participation**

Our project is rooted in two frontline communities of color and developed in collaboration with our long-time community partners, the Bayview Hunters Point Mothers and Fathers Committee, and El Pueblo Para el Aire y Agua Limpia/People for Clean Air and Water of Kettleman City, and with our newer partner the Marie Harrison Community Foundation. This project is a continuation and expansion of decades of collaboration with both El Pueblo and the BVHP Mothers and Fathers Committee on air quality and other environmental health and justice issues. Specifically, this project builds on the work over the last three years with El Pueblo and the BVHP Mothers and Fathers Committee in AB 617 Community Air Monitoring Projects. The contact person to address questions on the monitoring plan is Bradley Angel, Executive Director at Greenaction (for the Bayview Hunters Point air monitoring project) and Miguel Alatorre (Kettleman City project).

##### **Element 2: Community-specific purpose for monitoring**

Our project is based in the environmental justice communities of Bayview Hunters Point and Kettleman City that CalEnviroScreen has confirmed are highly vulnerable to pollution exposures and whose residents experience disproportionately high rates of health problems.

Bayview Hunters Point (BVHP) is a diverse, low-income community of color in Southeast San Francisco that suffers from the disproportionate burden of stationary and mobile sources of pollution and is at risk from climate change due to its location on the San Francisco Bay. Residents suffer high rates of infant mortality, asthma, cardiovascular diseases, and cancer. The Bay Area Air Quality Management District (BAAQMD) identifies BVHP as a "CARE" community area vulnerable to "Cumulative Impacts from Air Pollution" including 24-hour PM 2.5 exceedances.

According to CalEnviroScreen 4.0, Bayview Hunters Point ranks in the 90th percentile in terms of pollution. This means that Bayview Hunters Point has a higher pollution burden than 90% of California. For diesel particulate matter, Bayview Hunters Point falls in the 99th percentile and the 97th percentile for groundwater threats. Additionally, most of Bayview Hunters Point is within the 80<sup>th</sup>-96<sup>th</sup> percentile for hazardous waste facilities in the area, according to the CalEnviroScreen 3.0 Hazardous Waste Map. The effects of this pollution are reflected in the health of the community. Bayview Hunters Point lies in the 97th percentile for low birth weight and the 96th percentile for asthma.

Kettleman City is an unincorporated agricultural community located in Kings County in the Central Valley, at the intersection of Interstate 5 and Highway 41. According to CalEnviroScreen 4.0, Kettleman City has a higher pollution burden than 88% of California. In terms of exposures, it is in the 94th percentile for drinking water, 91st percentile for pesticides, 80th percentile for ozone, and 77th percentile for lead from housing. In addition, this community is in the 92nd percentile for groundwater threats and 88th percentile for solid waste. The level of pollution in Kettleman City is clearly affecting the health of its citizens, which are in the 77th percentile for asthma and 96th percentile for cardiovascular disease.

Thanks to the first 617 grant, our air monitoring network in Bayview Hunters Point is operating and part of the state-wide IVAN network. A new grant will enable us to strengthen the program by providing resources to maintain and service the existing air monitors, add four more stationary air monitors, and add a mobile air monitor component. In Kettleman City, a new grant will enable us to expand the pilot air monitoring work done under the first grant by allowing us to install two stationary air monitors and expand additional community air monitoring efforts.

### **Element 3: Scope of actions**

Task 2.1: Maintain and expand the Marie Harrison Community Air Monitoring Network in Bayview Hunters Point that was established with support from our first AB 617 grant

A new 617 grant will enable Greenaction to properly maintain, service and expand our air monitoring network in Bayview Hunters Point. Greenaction's Air Monitoring Technician Tiffany Williams (a long-time Bayview Hunters Point resident) was trained by Tracking California and Comite Civico del Valle Inc. during our first AB 617 project and has become skilled in maintaining/servicing and assembling Dylos air monitors. Ms. Williams will use her skills and experience to maintain in good working order the ten Dylos stationary monitors in Bayview Hunters Point.

As of today, 8 of the 10 monitors are properly operating. The other two monitors are to be installed in the next week or two, one at the Bay View newspaper office and one at a community member's home.

Task 2.2: Add 4 stationary Dylos Particulate Matter air monitors in BVHP and 2 in Kettleman City

Greenaction and our BVHP community partners will consult with our community members and other residents to identify appropriate locations for four additional stationary air monitors, and these will be sited by the end of year one at the latest. Ms. Williams will work with the IVAN Network (via Comite Civico del Valle) to continue reporting the air monitoring data live on our [www.bvhp-ivan.org](http://www.bvhp-ivan.org) website.

In Kettleman City, El Pueblo and Greenaction will work together to identify good locations (in homes, local business and/or community building) and then install 2 air monitors to provide the community with data on particulate matter measurements and pesticide drift.

Task 2.3: Train and work with our community partners and Youth Academy participants to use mobile/portable air monitors throughout the grant period to identify and monitor known or suspected pollution hotspots in BVHP and Kettleman City

In addition to the Dylos PM monitors now located in BVHP thanks to the AB 617 grant, Greenaction and our community partners will use the mobile/portable PM monitors we purchased with AB 617 funds in Kettleman City and Bayview Hunters Point. We will use Dylos and Purple Air monitors in this effort.

We will begin training residents of both communities on how to use the portable air monitors starting late winter 2022. Each year we will train a minimum of ten residents in each community so they will have the knowledge on how to use the air monitors. In each community, at least five of the ten trainees will be youth/young adults participating in our Youth Environmental Justice Air Quality Leadership Academy programs.

With El Pueblo and the Mothers and Fathers Committee, we will identify priority locations to conduct the air monitoring – targeting known or suspected air pollution hot spots within the communities.

During the grant period our Greenaction/community teams (including youth) will conduct portable air monitoring for a minimum of 48 days in each community each year.

#### **Element 4: Air monitoring objectives**

##### Objectives:

- (1) Expand our AB 617 community air monitoring programs in Bayview Hunters Point and Kettleman City
- (2) to help the community & government identify potential air pollution hotspots and air pollution sources in and near communities, and confirm known and/or suspected air pollution hotspots and gather new information about them, as well as potentially identify other air pollution hotspots that may not have been previously known to community residents and government agencies
- (3) provide hands-on citizen science skills, tools and capacity to enable residents and their community organizations to gather relevant pollutant data
- (4) make the collected data from stationary and portable air monitors publicly available to help inform government and community knowledge and decision-making to help reduce pollution emissions and exposures - and protect public health

##### Pollutants:

Particulate Matter (PM 2.5, PM 10), Community Air Quality level (CAL)

##### Technologies:

Dylos Stationary Monitors, Dylos and PurpleAir Mobile Monitors

##### Air monitoring areas/frequency:

Stationary monitors will be monitoring 24 hours a day

Mobile monitoring will be conducted 4 days a month during the grant period by Greenaction staff, trained community partners, and Leadership Academy participants.

Portable monitoring will happen at different times of the day in case there are variations by time of day.

##### Types of data needed:

- Stationary and portable monitors will be used to collect Particulate Matter data, 4 days a month over the next 3 years.
- In Bayview Hunters Point, we will be collecting data from mobile and stationary pollution sources, including concrete plants at the Port of San Francisco, emissions from contamination cleanup and construction activities throughout the community, and diesel truck emissions.
- In Kettleman City, we will monitor emissions from massive diesel truck traffic and pesticide drift, as well as regional air quality.

### **Element 5: Roles and responsibilities**

Greenaction staff, including staff who are long-time residents of both Bayview Hunters Point and Kettleman City, will play the lead role in the project and provide project management, oversight, coordination, and reporting.

The Bayview Hunters Point Lead Organizer/Project Co-Manager will oversee the air monitoring project through supervision of technical monitoring efforts, communication with the community, and as a liaison to other community groups and government agencies.

Greenaction's air monitor technician Tiffany Williams, a Bayviews Hunter Point resident, will be maintaining and servicing existing and new monitors that we will be locating in that community.

In Kettleman City, Miguel Alatorre and Maricela Mares Alatorre will oversee the air monitoring project through identifying sites to install 2 stationary air monitors, maintaining air monitors, monitoring and sharing data, and working with community members, including Youth Academy participants to conduct mobile air monitoring 4 times a month.

### **Task 3: Community Engagement**

Task 3.1: Conduct annual Youth Environmental Justice Air Quality Leadership Academy Programs in Bayview Hunters Point and Kettleman City, focusing on leadership skills, community science and civic engagement including watchdogging and monitoring of pollution sources, filing effective pollution complaints

Timeline:  
Spring 2022 – September 2024

Youth Academy preparations begin in the spring and the academies will be conducted in the summer annually.

Activities: Greenaction will work with our community partners to plan and conduct two Youth Environmental Justice Air Quality Leadership Academy programs, one in Kettleman City and one in Bayview Hunters Point. Five youth/young adults from each community will be recruited to participate in the Academy program each year (total of 10 annually).

The Youth Academy programs will take place during the summers annually, with curriculum preparation beginning in January 2022. Greenaction staff and university interns will take the lead in updating the youth curriculum we have developed over the last few years, tailored to the specific issues in each community. .

The academies will combine 3-4 days of classroom learning, sharing of community knowledge, trainings on air pollution and health, cumulative impacts, learning about air monitors and monitoring, and building skills in public speaking, researching pollution and environmental health information. Youth will then conduct 20 hours of community projects including participating in air monitoring of known or suspected hot spots, identifying and reporting pollution violations, and possibly other activities including developing a social media project, educating truckers and businesses about the rules restricting diesel idling, and/or civically engaging with government agencies. In Kettleman City, the youth will also learn about pesticide drift, how to protect yourself and families, and how to report violations. We will invite CARB, Department of Pesticide Regulation, Bay Area Air Quality Management District, San Joaquin Valley Air Quality Control District and Regional Air Districts to participate in the Youth Leadership Academies.

Expected results: Five youth/young adults in each community will gain knowledge, skills, confidence and experience to become environmental and climate justice leaders. The youth will help their community, Greenaction, and government agencies identify pollution concerns and will report violations to the responsible government regulatory agency.

Task 3.2: Conduct 8 trainings annually for residents on air pollution, environmental health, climate change, air monitoring in vulnerable urban, rural and Indigenous communities

Timeline: January 2022 – March 2025

Activities: Each year, Greenaction will conduct 8 trainings for local community groups and Native Nations in at least 5 urban, rural and Indigenous communities around the state that are impacted by air pollution sources. Trainings will focus on teaching residents about air quality and health, the importance of community air monitoring, and how to use portable PM air monitors, and how to effectively engage on air quality issues. Trainings will include actual community air monitoring sessions in these locations.

In the first year, trainings will occur at the Coyote Valley Band of Pomo Indians reservation in northern California, Bayview Hunters Point, Kettleman City, and Avenal, and we will reach out to other urban, rural and Indigenous communities that have not had access to this information or technology.

Expected Results: Community residents, adults and youth from at least 5 communities impacted by air pollution will learn about air monitor technologies and learn air monitoring skills. They will be more informed about pollution, environmental health, and climate change issues impacting their community and the planet. They will also learn how to civically engage with government regulatory agencies on air pollution issues including how to file effective pollution complaints.

Task 3.3: Conduct community educational outreach on pollution (including diesel emissions, illegal dumping, and pesticide drift), environmental health (including CalEnviroScreen 4.0), climate change, air monitoring

Timeline: ongoing throughout grant period

Activities: Greenaction will work with our community partners and Youth Academy participants to conduct multilingual community outreach on pollution, environmental health, climate change, and the air monitoring project.

We will work with Bayview Hunters Point community partners to establish and support a Bayview Hunters Point Air Protectors team that will conduct educational outreach and civic engagement.

Greenaction and El Pueblo will conduct annual Kettleman City health fairs to educate residents on air pollution, environmental health and civic engagement opportunities.

We will create new fact sheets for Bayview Hunters Point and Kettleman City on air quality and environmental health, climate change impacts; CalEnviroScreen 4.0; how to file effective pollution complaints including on diesel idling, pesticide drift and illegal

dumping. These fact sheets will be translated into key languages spoken in each community (Spanish and Chinese in Bayview Hunters Point and Spanish in Kettleman City). Fact sheets will be distributed in the communities and will be posted on our website and social media. Outreach will be in-person as well as virtual.

Expected Results: New fact sheets will be created, distributed in person, through social media, and our website. These informative, community-friendly fact sheets will result in residents being more aware of the issues and more informed on how to civically engage to bring about a healthier community and planet. At least 6,000 Bayview Hunters Point residents and 2000 Kettleman City and Avenal residents will be engaged and will receive our information directly each year.

Task 3.4: Organize and facilitate monthly meetings of the BVHP EJ Response Task Force; and participate in and support Kings County IVAN Task Force; Strengthen partnerships and collaborations with CARB and other state, regional, and local government agencies.

Timeline: Monthly meetings ongoing

Activities: Greenaction will be the primary organization responsible for organizing and facilitating the monthly meetings of the Bayview Hunters Point Environmental Justice Response Task Force. The Bayview Hunters Point Mothers Committee and Marie Harrison Community Foundation will collaborate with Greenaction to develop agendas for each meeting, notifying the public (including the several hundred stakeholders on the Task Force email list), creating a flyer for each meeting that will be distributed in the community, via email, and on our website and social media.

We will continue our strong participation and support for the Kings IVAN, attending each meeting, providing technical support for the monthly meetings, and notifying community members of the meetings and civic engagement that occurs.

We will increase our outreach to local, regional, state, and federal regulatory agencies and officials to encourage them to either continue or begin participation in the IVAN Task Forces.

Meetings will continue to be held via Zoom until the pandemic situation allows safe in-person meetings.

Expected Results: The Bayview Hunters Point Environmental Justice Response Task Force will continue to have productive and well attended monthly meetings that address

pollution complaints and concerns of residents. At least two more government agencies will increase (or begin) participation in addition to the many agencies that already participate. Participation of residents will increase between 10-20% each year.

Air pollution complaints filed on [bvhp-ivan.org](http://bvhp-ivan.org) will increase by 25% the first year, and more residents will be aware of how to file air pollution complaints directly to BAAQMD's complaint line, 800-334-ODOR.

The Kings IVAN Task Force will continue to have productive meetings. More residents and government agencies will learn about the Task Force. More pollution complaints will be submitted online.

#### **Task 4: Workforce Development**

(e.g., does your project provide paid internships to students or learning institution students, high-quality jobs, job training, etc. to priority populations).

This project enhances workforce development to priority populations in the communities we are working in. Specifically, a grant will enable us to:

- continue our Bayview Hunters Point Community Air Monitoring Technician role, and continue to build her skills and expertise.
- add to our Bayview Hunters Point team by hiring a resident as Lead Organizer.
- With our project partners, we will be hiring and training residents to be a part of our BVHP Air Protectors team.
- Youth Environmental Justice Air Quality Leadership Academy participants will receive generous stipends at \$20/hour, and advocacy knowledge and skills to empower them as community members and workforce

#### **Task 5: Reporting**

The air monitoring results will be reported:

- (1) real time via the IVAN network including [www.bvhp-ivan.org](http://www.bvhp-ivan.org) and the website of the BVHP EJ Response Network
- (2) in monthly updates at the BVHP IVAN Task Force meetings and Kings County IVAN meetings
- (3) in community educational material and presentations in the community
- (4) via social media

Overall, Greenaction has professional and effective reporting procedures in place for our project. We have developed and used these procedures in managing dozens of projects funded by government and foundation grants, including major grants from the

US EPA, California EPA, BAAQMD, California Endowment, California Wellness Foundation, Rose Foundation, Sierra Health Foundation/San Joaquin Valley Health Fund, Satterberg Foundation, and others. We plan to prepare biannual reports as well as a final report at the end of the grant period.

We will have a dedicated Lead Organizer/Project Manager tasked with documenting all processes, meetings, and deliverable outputs of the project. All project staff self-report their time and activities. Our Administration/Operations staff person will track all expenditures in Quickbooks and grant project documentation. Contractors and Greenaction sign MOU's that set forth scope of work, compensation, and reporting procedures and requirements. Our Executive Director, Bradley Angel, personally supervises these processes to ensure they are being implemented properly.