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OFFICE OF THE CITY CLERK
OAKLAND

2018 SEP 12 PM 4: 19

AGENDA REPORT

TO: Sabrina B. Landreth
City Administrator

FROM: Jason Mitchell
Director, Public Works

SUBJECT: Accepting an Urban Forestry Policy
Development Grant from Cal Fire

DATE: August 16, 2018

City Administrator Approval

Date

9/11/18

RECOMMENDATION

Staff Recommends That The City Council Adopt A Resolution Authorizing The City Administrator To:

- 1) **Accept And Appropriate Nine Hundred Seventy Thousand, One Hundred Thirty Dollars And Eight Cents (\$970,130.08) From The California Department Of Forestry And Fire Protection (Cal Fire) Urban And Community Forestry Grant Program, As Provided Through The Greenhouse Gas Reduction Fund, For Completion Of A Citywide Street And Urban Park Tree Inventory, Development Of Oakland's Urban Forest Master Plan (UFMP), And The Planting Of Seven Hundred (700) Trees;**
- 2) **Waive The Advertising And The Competitive Request For Proposal/Qualification Selection Requirements For Related Community Engagement Services And Award A Contract To Oakland Climate Action Coalition In The Amount Of Forty-Six Thousand Dollars (\$46,000); And**
- 3) **Authorize The City Administrator To Accept And Award A Contract For Citywide Street And Urban Park Tree Inventory And Oakland's Urban Forest Master Plan In An Amount Of Six Hundred And Twenty-Five Thousand Dollars (\$625,000) To The Successful Proposer After Conducting A Competitive Request For Proposal Without Returning To Council.**

EXECUTIVE SUMMARY

The California Department of Forestry and Fire Protection (Cal Fire) has awarded a grant (see **Attachment A**) to the City of Oakland for \$970,130.08 in Greenhouse Gas Reduction Fund (GGRF) grant to accelerate planning and implementation of urban forestry throughout Oakland, focusing particularly on historically underserved neighborhoods. Specifically, the project would complete the following objectives:

- 1) Inventory all street, median, and park trees, which includes inspecting, assessing, and mapping individual trees throughout Oakland;

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- 2) Engage the community to develop an UFMP with recommendations for improving and maintaining all of Oakland's urban forest, including identifying a tree canopy goal and ways of efficiently and effectively increasing the tree canopy in disadvantaged areas of Oakland;
- 3) Plant 700 trees with Oakland Public Works staff and community volunteers in parts of Oakland with low tree canopy coverage, which are identified as "disadvantaged."

If the Council provides authorization to enter into this grant agreement, Oakland Public Works (OPW) would partner with Oakland-based nonprofits to work with the community and provide meaningful engagement with historically underserved community members. Under the terms of the Cal Fire grant, the City would be the prime contractor. The City would subcontract to the Oakland Climate Action Coalition (OCAC) in an amount not to exceed \$46,000 for professional services, centered on engaging underrepresented communities within "disadvantaged" neighborhoods in the development of the UFMP. OCAC is uniquely qualified to conduct this work due to their role uniting and representing approximately 30 environmental, racial, and economic justice organizations throughout Oakland for the past seven years and acting during that time as a key convener for climate and equity issues, including playing the lead role in facilitating community engagement during the creation of the 2020 Energy and Climate Action Plan (ECAP). The City would also conduct a competitive request for proposal (RFP) for the Citywide Street and Urban Park Tree Inventory and Oakland's Urban Forest Master Plan in an amount of \$625,000, which may be performed by 1 or 2 contractors who will work with the City, OCAC, underserved community members and other key stakeholders to craft the UFMP.

A robust urban forest supports Oakland's environmental, economic development, and equity goals. Oakland has suffered from a declining urban forest since the City was forced to reduce its Tree Services Division budget in response to revenue shortfalls in 2008, as well as from an inequitably distributed urban forest across the city's diverse neighborhoods. This project aims to develop a financially sustainable plan for increasing the urban forest over the next fifty years; identify pathways for enhancing equity through tree planting and maintenance in underserved neighborhoods; and jumpstart that process by planting 700 trees in those neighborhoods.

BACKGROUND/LEGISLATIVE HISTORY

An UFMP is a long-standing goal of the City of Oakland and the Oakland community. Oakland's Energy & Climate Action Plan (ECAP) specifically calls for the creation an UFMP to maximize the environmental, social, and economic value of urban forest benefits for the greater good of Oakland (TLU-45). The ECAP also calls for a robust inventory of trees in public spaces and provides guidance for the plan, including revitalizing the City's tree planting program and finding funding for comprehensive public tree maintenance (TLU-46). Such projects are to be in collaboration with community members and organizations that represent different interests in Oakland, such as parks, watersheds, habitat, climate, beautification, racial justice, and regional planning (TLU-50 and TLU-51).

Similarly, Urban and Community Forestry efforts play a significant role in meeting the State's greenhouse gas (GHG) emission reduction targets as well as Oakland's sustainability targets. Cal Fire has received funding from the State Greenhouse Gas Reduction Fund (GGRF), which

is funded by California's Cap and Trade system, to support forestry projects that reduce or avoid greenhouse gas (GHG) emissions. The funding is authorized by Senate Bill 862, Greenhouse Gases: Emissions Reduction (2014). A total of \$2.4B was appropriated for all GGRF in FY 2017-18. That included \$295M to Cal Fire, of which \$220M was in the broad category of "Forest health, Fire Prevention, and Urban & Community Forestry." Cal Fire expects to award at least \$17.7M of this funding to Urban and Community Forestry California Climate Investment projects, including the proposed project.

The current grant opportunity references CalEnviroScreen 3.0 (CES), a mapping tool created by the California Environmental Protection Agency (CalEPA) and the Office of Environmental Health Hazard Assessment (OEHHA), which scores census tracts based on a combination of environmental and human health indicators. The map identifies "disadvantaged communities," a designation required by many GGRF funding opportunities. Oakland includes multiple disadvantaged communities according to CES.

State funding opportunities that reference the CES tool include requirements that projects be located within, or specifically benefit, disadvantaged communities. The CES tool supports the City's policies and legislative direction, including references in the ECAP that environmental and sustainability activities should be carried out to benefit historically underserved communities specifically; goals of the Department of Race and Equity; and the City's Resilient Oakland Initiative.

The City of Oakland adopted its first tree ordinance in 1932. Currently, four ordinances affect Oakland's urban forest. Oakland has held the designation of "Tree City USA" by the Arbor Day Foundation for the past 34 years because of the City's urban forestry practices, protections, and annual Arbor Day observances and proclamations. An UFMP would include a review of these ordinances in light of new canopy coverage, social equity, and funding goals, and include recommendations for revisions as appropriate.

Accepting Cal Fire's funding for the proposed projects will allow OPW to focus attention on urban forestry needs identified by City staff and the community that cannot be otherwise be addressed within Tree Services' budget.

ANALYSIS AND POLICY ALTERNATIVES

As outlined in the ECAP, establishing clear policy objectives for a sustainable and equitable urban forest through an UFMP is a long-standing goal of both the City and the Oakland community. The goals of the proposed grant-funded project are to design a financially and environmentally sustainable, and socially equitable, framework for urban forestry in Oakland for the next fifty years; and to increase benefits from trees for all Oaklanders, especially those in disadvantaged communities.

The Cal Fire grant will enable a solid understanding of Oakland's urban forest's needs through a complete street, median, and park tree inventory; fund the creation of a detailed UFMP; and support strategic community tree planting events. The inventory will prioritize tree work to ensure equity and public safety; provide a baseline from which the community, the City, and our

partners can identify an appropriate canopy coverage goal; and form the basis of an UFMP. An UFMP will provide a framework for the long-term care, preservation, and equitable expansion of Oakland's urban forest over a fifty-year period, including recommendations for revisions to the City's Tree Protection Ordinance. It will be written through a collaborative process that engages all appropriate stakeholders. Throughout the three and three quarters (3.75) years grant period, the City and its partners will hold community tree plantings in disadvantaged neighborhoods, as identified by CES 3.0, to rapidly accelerate the benefits of a robust urban forest in those areas.

The detailed work plan is as follows:

1. Urban Tree Inventory: The City will select and engage with an outside consultant to conduct a complete inventory of street, median, and urban park trees. The inventory will provide an accurate assessment of the state of Oakland's urban forest, its maintenance needs, and its current social, environmental, and financial values. A complete, accurate inventory urban trees does not currently exist, therefore this comprehensive set of baseline data from the inventory will form the foundation for policy development and future action, including prioritizing tree work to protect public safety. Additionally, the inventory will be integrated into OPW's GIS and Cityworks systems to more accurately inform the work of OPW's Tree Services Division.
2. Urban Forest Master Plan: The fifty-year UFMP will provide a framework for the long-term care and equitable expansion of Oakland's urban forest, enabling staff to effectively plan for its maintenance in a way that maximizes benefits and available resources. The UFMP will be a collaborative effort among the City, underserved community members and community organizations representing different interests in Oakland, including trees, parks, watershed, habitat, climate, beautification, racial and economic justice, climate equity, and regional planning. The tree inventory will provide the baseline of understanding for the plan and will be compared with previous partial tree inventories and satellite data to identify trends. A central component of the plan will be identifying citywide and neighborhood-specific canopy coverage goals, which will be recommended to City Council for adoption. The UFMP will provide recommendations for meeting the canopy cover goals, and for addressing other urban forestry issues raised and examined during the plan's development. These may include ongoing maintenance, specific stormwater and pollution mitigation goals, potential threats to public safety, and social equity provisions. The plan will identify sustainable funding strategies to support its full implementation. It will also include a provision for periodic review and updating. Staff will present the final UFMP to City Council with the recommendation to adopt it by the conclusion of the grant period.
3. Preliminary Implementation through Community Tree Plantings: This project will promote equity and environmental justice by rapidly increasing canopy coverage in historically underserved communities, with consideration of burdens and benefits in the design of the approach to implementation and maintenance. With the assistance of volunteers and community partners, the City will plant 700 trees (over the course of the grant period which is approximately 3.5 years) in appropriate locations in streets, medians, urban parks, and in front of schools in areas that are particularly in need of trees. The City will organize planting events to engage neighborhoods and inform people about trees and

their benefits, including how to plant and care for trees and the importance of improving the overall urban forest. Ongoing volunteer engagement will be coordinated with the Oakland Parks and Recreation Foundation (OPRF) and the City's Adopt-a-Spot program. When tree planting events occur at or near schools, staff and community partners will work with teachers and students to provide age-appropriate educational activities on the planting process and benefits of trees. Planting locations will be identified by the tree inventory, as well as by community members, the City, and the recommendations in plans developed by environmental justice groups for their communities, as appropriate. At least 75 percent of the planting locations will be within disadvantaged communities, with up to 25 percent of the planting locations taking place in low income communities that are within a half-mile of disadvantaged communities, as defined by CES 3.0. Where possible, the City will select locations within or benefitting designated Priority Conservation Areas.

The proposed project will target social equity by addressing areas where Oakland has unmet needs for greater tree canopy coverage. Currently, some areas – largely concentrated in neighborhoods with higher rates of poverty, unemployment, poor health outcomes, and elevated pollution levels – have as little as 6.5 percent tree canopy coverage. By contrast, other Oakland neighborhoods (generally in more affluent communities) have as high as 47.4 percent tree canopy coverage. The UFMP will aim to enhance and expand Oakland's overall urban forest, and ensure that the benefits of trees accrue to all neighborhoods equitably. Residents and businesses in disadvantaged communities near tree plantings may share in the many benefits of trees, which include improved air quality, energy cost savings (e.g., where trees shade buildings in the summer, reducing the need for mechanical cooling, and shed their leaves in the winter, reducing the required heating load), reduced stormwater pollution and erosion, reduced noise pollution, cooler streets, extended usable life of streets and storm drains, and enhanced quality of life in the immediate term from the 700 trees planted during the grant period. The UFMP will also provide the path forward for the long-term tree planting and maintenance strategies that will enable tree benefits to accrue equitably in all neighborhoods for decades to come.

Upon executing the grant contract with Cal Fire, the City will assemble the project team, which will include hiring a Project Coordinator for the duration of the project. The Project Coordinator will oversee all components of the project, working closely with the City's Senior Tree Supervisor, Sustainability staff, and Arboricultural Inspectors. Sustainability staff within OPW's Environmental Services Division will participate by ensuring that planting activities and the urban forest master plan are coordinated with ongoing ECAP implementation and tracking, and that key members of the environmental justice community that have been involved in ECAP advocacy are engaged in development of the UFMP. The Project Coordinator will work with Tree Services staff to hire an Inventory Contractor and Master Plan Consultant and will oversee the Urban Tree Inventory.

The community engagement process will build on complementary similar work undertaken for the City's Resilient Oakland Initiative (ROI, 2015-2016) and development of the ECAP (2009-2012).

OCAC, which formed when more than 30 community organizations came together to work with the City in creating the ECAP, is uniquely qualified to implement the portion of the community engagement process that specifically focuses on engaging underserved communities. OCAC consists of 30 community, faith, labor, academic, and environmental advocacy organizations focused on climate justice and the communities most vulnerable to the effects of climate change. OCAC member organizations include all of the key organizations that the City would need to engage for the collaborative process of assessing the unique needs of Oakland's most vulnerable communities in relation to the urban forest, including the Asian Pacific Environmental Network; Communities for a Better Environment; West Oakland Environmental Indicators Project; Urban Biofilter; HOPE Collaborative; and many more.

The City will subcontract with OCAC to perform the following activities:

- Co-design the community outreach process, using Department of Race and Equity inclusive outreach and engagement guide with City staff;
- Plan and facilitate community meetings to engage community members, particularly from underserved neighborhoods, in the visioning process for the UFMP;
- Ensure that key organizations, resident leaders, and neighborhoods are included;
- Ensure equitable access for underserved communities throughout the engagement process; and
- Collect and assess feedback from the community meetings and ensure that feedback is understood by City staff.

OMC Title 2, Chapter 2, Article I, Section 2.04.051.A requires the City to conduct a competitive RFQ/P selection process for the procurement of professional services. OMC Section 2.04.051.B permits the City Council to waive the competitive RFQ/P competitive selection requirement upon a finding and determination that it is in the best interests of the City to do so. Staff recommends that the Council find and determine that it is in the best interests of the City to waive the RFQ/P competitive selection requirement and award a contract to OCAC in the amount of \$46,000, for a term not to exceed three years, for the activities cited above.

FISCAL IMPACT

The total one-time cost to implement this project over 3.75 years is \$1,330,656.13, of which \$970,130.08 is grant funding and \$360,526.05 is match funding from the City, as required by Cal Fire's grant guidelines. The match funding comprises \$254,476.05 in-kind match from staff time and \$35,400 for supplies, both currently included in the operating budget for Parks and Tree Services Division, Environmental Services Division, and Bureau of Facilities and Environment; and \$75,000 of match funding from the Paradies Trust for planting trees. The grant will fund 1.0 FTE Administrative Analyst II limited duration position over the 3.5 year grant term at an estimated cost of \$182,000 per fiscal year. The grant funds will be appropriated into State of California – Other Grant (Fund 2159, and Tree Services' budget (Fund TBD, Organization 30654).

A breakdown of the project funding is as follows:

Category	Description	Amount
Cal Fire Grant	Award	\$970,130.08
Current staffing	In-kind, OPW current budget	\$254,476.05
Materials and supplies	OPW current budget	\$31,050.00
Tree planting	Paradies Trust carryforward	\$75,000.00
Total Project:		\$1,330,656.13

PUBLIC OUTREACH / INTEREST

The Oakland Urban Forestry Forum (OUFF) and other key stakeholders support development of an UFMP for Oakland's trees. The ECAP, co-written by the City and dozens of community groups between 2009 and 2011 and adopted by City Council in 2012, contains seven Actions relating to urban forestry, many of which were suggested by the community. In recent years, several community organizations and stakeholders, including OCAC and Cal Fire, have urged the City to reinstate funding for tree services, to restart the City's tree planting program, provide adequate maintenance of Oakland's tree canopy, and to pay particular attention to boosting the urban forest in disadvantaged communities.

The application for the current proposed grant builds on two years of community engagement with multiple organizations, including many OCAC members, Friends of Sausal Creek (FOSC), and others, to identify preliminary areas of concern that should be addressed through an UFMP and through demonstration tree planting in DACs. Letters of support/partnership for the City's application were provided by OCAC, OPRF, Oakland Unified School District (OUSD), FOSC, and the Arbor Day Foundation. Cal Fire requires "deep and meaningful community engagement" as part of their grant requirements, therefore ongoing community engagement throughout and after the grant term will be an integral component of each stage of the proposed project. This encompasses the inclusive community engagement process of the UFMP development and the focus on community partnerships, guided volunteerism, and education in the tree planting component.

COORDINATION

The Parks and Tree Services and Environmental Services Divisions of Public Works coordinated the Cal Fire grant application with the Office of the City Attorney, the Budget Bureau, and the Department of Race and Equity. If the City Council elects to accept the grant funds, Parks and Tree Services and Environmental Services Divisions staff will coordinate with the Office of Contracts and Compliance to execute the necessary agreements, and then with the Department of Race and Equity to plan and implement an inclusive community engagement process for development of the UFMP.

SUSTAINABLE OPPORTUNITIES

Economic: The grant will provide partial funding for one FTE in OPW to manage the grant activities. The funding will also hire OCAC, a local coalition of Oakland nonprofits, to assist by providing outreach in neighborhoods in East and West Oakland where tree canopy coverage is historically low. The results of the tree inventory will include the calculation of the economic value of Oakland's urban forest. The UFMP will identify economically sound ways to improve the health of our urban forest, including both planting and maintenance, particularly in low income communities.

Environmental: Adoption of an UFMP that is collaboratively written, with buy-in from across the community, is expected to result in a city-wide urban forest that is healthier, more robust, and provides increased environmental benefits, directly contributing to achieving Oakland's climate goals. This includes sequestering carbon dioxide, the leading greenhouse gas contributing to climate change, and alleviating the impacts of climate change by reducing stormwater runoff and erosion, in turn reducing the likelihood and extent of flooding. Trees capture and filter air pollution, resulting in improved public health for all members of the community. They also reduce noise pollution. Finally, enhancing the urban forest and ensuring that tree species are carefully selected will enhance habitat for the native flora and fauna species that are part of Oakland's ecosystem. The tree planting that will occur over the grant implementation period will jump-start these benefits, and ensure that they accrue first and foremost in the communities that would most benefit from them as indicated by current disparities in conditions.

Social Equity: Residents and businesses in disadvantaged areas of the city stand to receive numerous benefits from the tree planting portion of the project, such as reduced air and noise pollution, cooler streets and buildings, reduced violence, extended usable life of streets and storm drains, and improved health. Numerous academic studies point to the benefits of a robust urban forest in improving residents' emotional health and academic performance, and decreasing violence. The City will work closely with its partners, including OCAC, OUSD, and Oakland's robust network of environmental justice advocates, to ensure that the UFMP is written so as to prioritize these benefits

California Environmental Quality Act (CEQA)

The City Council's action would result in a complete urban (street and park) tree inventory, completion of a UFMP, and the demonstration planting of 700 trees in the public right-of-way. Planning and feasibility studies are exempt from CEQA (CEQA Guidelines Section 15262 ["feasibility and planning studies"], Section 15306 ["information collection"], Section 15061(b)(3) ["general rule"] and Section 15183 ["projects consistent with a General Plan or Zoning"]). Actual future implementation of UFMP recommendations may be subject to CEQA review, which would be analyzed when the proposal comes to the City Council for adoption.

ACTION REQUESTED OF THE CITY COUNCIL

Staff Recommends that the City Council adopt a Resolution authorizing the City Administrator to: 1) Accept and appropriate nine hundred seventy thousand, one hundred thirty dollars and eight cents (\$970,130.08) from the California Department of Forestry and Fire Protection (Cal Fire) Urban and Community Forestry Grant Program, as provided through the Greenhouse Gas Reduction Fund, for completion of a citywide street and urban park tree inventory, development of Oakland's Urban Forest Master Plan (UFMP), and the planting of seven hundred (700) trees; 2) Waive the advertising and the competitive request for proposal/qualification selection requirements for related community engagement services and award a contract to Oakland Climate Action Coalition in the amount of forty-six thousand dollars (\$46,000); and 3) Authorize the City Administrator to accept and award a contract for citywide street and urban park tree inventory and Oakland's Urban Forest Master Plan in an amount of six hundred and twenty-five thousand dollars (\$625,000) to the successful proposer after conducting a competitive request for proposal without returning to Council.

For questions regarding this report, please contact Brian Carthan, Park Services Manager, at (510) 615-5510.

Respectfully submitted,



JASON MITCHELL
Director, Oakland Public Works

Reviewed by:
David Ferguson, Acting Assistant Director,
Bureau of Facilities and Environment

Prepared by:
David Moore, Tree Supervisor II
Parks and Tree Services Division

Prepared by:
Shayna Hirshfield-Gold,
Acting Sustainability Program Manager
Environmental Services Division

Attachments (1):
-Attachment A: Cal Fire Grant Agreement

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Public Works Committee
September 25, 2018



DEPARTMENT OF FORESTRY AND FIRE PROTECTION

P.O. Box 944246
SACRAMENTO, CA 94244-2460
(916) 653-7772
Website: www.fire.ca.gov



August 3, 2018

Brian Carthan
City of Oakland
7101 Edgewater Drive, Bldg. 2
Oakland, CA 94621

8GG17402; City of Oakland, "City of Oakland Tree Inventory, Urban Forest Master Plan, and Tree Planting Project"

This Agreement cannot be considered binding on either party until approved by appropriate authorized CAL FIRE designee. No services should be provided prior to approval, as the State is not obligated to make any payments on any Agreement prior to final approval. FAILURE TO RETURN ALL DOCUMENTS BY DATE BELOW MAY RESULT IN LOSS OF FUNDING.

Please contact James Scheid at (415) 265-9059 if you have questions concerning services to be performed.

1. Full grant agreement including terms and conditions, project grant application form, scope of work, budget, GHG emissions reduction methodology, map, and other exhibits enclosed. Print (single sided) and return three (3) sets of agreements with original signatures in blue ink. Please return the agreement to be received by CAL FIRE no later than **September 4, 2018**. Also, missing from previously submitted documents:
- Please include (1) fully completed and approved Resolution.

Return all originals and requested documents for further processing to:

Please send the originals to the following address:

**CAL FIRE
Attn: Grants Management Unit/CCI
P.O. Box 944246
Sacramento, CA 94244-2460**

You may send originals via overnight mail service to the to the following physical address:

**801 Capitol Mall, Suite 420
Sacramento, CA 95814**

2. Enclosed for your record is one fully executed copy of the agreement referenced above. When billing for services performed under this agreement, your invoices must reference the agreement number above and be submitted to the contract manager.

Thank you,

Alice Miller
Grants Analyst
Grants Management Unit

CC: James Scheid
Robert Little
John Melvin
Stella Chan

Enclosures

State of California
 Dept. of Forestry and Fire Protection (CAL FIRE)
 Resource Management
 GRANT AGREEMENT

APPLICANT: City of Oakland
PROJECT TITLE: City of Oakland Tree Inventory, Urban Forest Master Plan, and Tree Planting Project
GRANT AGREEMENT: 8GG17402

PROJECT PERFORMANCE PERIOD IS from Upon Approval through March 30, 2022.
 Under the terms and conditions of this Grant Agreement, the applicant agrees to complete the project as described in the project description, and the State of California, acting through the Dept. of Forestry & Fire Protection, agrees to fund the project up the total state grant amount indicated.

PROJECT DESCRIPTION: The city will conduct a complete inventory of all trees on streets, medians, and urban parks, and complete a comprehensive urban forest master plan. The city's tree protection ordinance will be updated and revised to strengthen canopy coverage goals that are part of the master plan. 700 trees will be planted by the city in Oakland's Disadvantaged and Low Income Communities.

Total State Grant not to exceed \$ 970,130.08 (or project costs, whichever is less)

**The Special and General Provisions attached are made a part of and incorporated into this Grant Agreement.
 **The below signor testifies that they have the authority to be signing this agreement in their capacity as an employee of the eligible entity for this grant.*

City of Oakland

STATE OF CALIFORNIA
 DEPARTMENT OF FORESTRY
 AND FIRE PROTECTION

 Applicant

By _____
 Signature of Authorized Representative

Title _____

Date _____

By _____

Title: **Helge Eng**
Deputy Director, Resource Management

Date _____

CERTIFICATION OF FUNDING

AMOUNT OF ESTIMATE FUNDING \$ 970,130.08		GRANT AGREEMENT NUMBER 8GG17402		FUND Optional Line Item:	
ADJ. INCREASING ENCUMBRANCE \$ 0.00		APPROPRIATION Greenhouse Gas Reduction Fund			
ADJ. DECREASING ENCUMBRANCE \$		FUNCTION Greenhouse Gas Reduction Fund			
UNENCUMBERED BALANCE \$ 970,130.08		LINE ITEM ALLOTMENT 3540- 001 - 3228	CHAPTER 249	STATUTE 2017	FISCAL YEAR 17/18
T.B.A. NO.	B.R. NO. FY	INDEX 9520	OBJ. EXPEN D 418	PCA 92004	PROJECT/WORK PHASE VENDOR# 086547-00

I hereby certify upon my personal knowledge that budgeted funds are available for this encumbrance.

 SIGNATURE OF CAL FIRE ACCOUNTING OFFICER

 DATE

TERMS AND CONDITIONS OF GRANT AGREEMENT

I. RECITALS

1. This Agreement, is entered into between the State of California, by and through the California Department of Forestry and Fire Protection (CAL FIRE), hereinafter referred to as "STATE" and City of Oakland, hereinafter referred to as "GRANTEE".
2. The STATE hereby grants to GRANTEE a sum (hereinafter referred to as "GRANT FUNDS") not to exceed nine hundred seventy thousand one hundred thirty dollars and eight cents (\$970,130.08).
3. In addition to the terms and conditions of this Agreement, the STATE and GRANTEE agree that the terms and conditions contained in the documents set forth below are hereby incorporated and made part of this agreement.
 - a. Department of Forestry and Fire Protection 2017/18 California Climate Investments Urban and Community Forestry Program Grant Guidelines
 - b. California Air Resources Board Greenhouse Gas Quantification Methodology for the Department of Forestry and Fire Protection (CAL FIRE) Urban and Community Forestry Program 2017/2018
 - c. The submitted Application, Scope of Work, Budget Detail, GHG Emissions Reduction Methodology and Exhibits
 - d. Addendum for Greenhouse Gas Reduction Fund (GGRF) Grant Projects

II. SPECIAL PROVISIONS

1. Recipients of GRANT FUNDS pursuant to California Public Resources Code Section 4799.06-4799.12 shall abide by the provisions in this Agreement. This includes the requirement that work shall not commence prior to the execution of this Agreement by both parties. Any work started prior to the execution of this Agreement will not be eligible for funding under the terms of this Agreement.
2. As precedent to the State's obligation to provide funding, GRANTEE shall provide to the STATE for review and approval a detailed budget, specifications, and project description. Approval by the STATE of such plans and specifications, or any other approvals provided for in this Agreement, shall be for scope and quality of work, and shall not relieve GRANTEE of the obligation to carry out any other obligations required by this Agreement, in accordance with applicable law or any other standards ordinarily applied to such work or activity.

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Urban Forest Master Plan, and Tree Planting Project

3. All informational products (e.g., data, studies, findings, management plans, manuals, photos, etc.) relating to California's natural environment produced with the use of GRANT FUNDS shall be available for public use.

III. GENERAL PROVISIONS

1. Definitions

- a. The term "Agreement" means grant agreement number 8GG17402.
- b. The term "GRANT FUNDS" means the money provided by the STATE to the GRANTEE in this Agreement.
- c. The term "GRANTEE" means an applicant who has a signed Agreement for the award for GRANT FUNDS.
- d. The term "Other Sources of Funds" means all matching fund sources that are required or used to complete the Project beyond the GRANT FUNDS provided by this Agreement.
- e. The term "STATE" means the State of California, Department of Forestry and Fire Protection (CAL FIRE).
- f. The term "Project" means the development or other activity described in the "Project Scope of Work".
- g. The term "Project Budget Detail" as used herein defines the approved budget plan.
- h. The term "Project Scope of Work" as used herein means the individual scope of work describing in detail the approved tasks.

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Urban Forest Master Plan, and Tree Planting Project

2. Project Representatives

The project representatives during the term of the agreement will be:

STATE: CAL FIRE	GRANTEE: City of Oakland
Section/Unit: Urban and Community Forestry	Section/Unit: N/A
Attention: James Scheid	Attention: Brian Carthan
Mailing Address: 2840 Mt Danaher Road, Camino, CA 95709	Mailing Address: 7101 Edgewater Drive, Building 2, Oakland CA 94621
Phone Number: (415) 265-9059	Phone Number: (510) 615-5510
Email Address: James.Scheid@fire.ca.gov	Email Address: bcarthan@oaklandca.gov

Changes to the project representatives during the term of the agreement shall be made in writing. Notice shall be sent to the above representative for all notice provisions of this Agreement.

3. Project Execution

- a. Subject to the availability of grant monies, the STATE hereby grants to the GRANTEE a sum of money (GRANT FUNDS) not to exceed the amount stated on Section I. RECITALS, Paragraph 2 in consideration of and on condition that the sum be expended in carrying out the purposes as set forth in the description of the Project in this Agreement and its attachments and under the terms and conditions set forth in this Agreement.
- b. GRANTEE shall assume any obligation to furnish any additional funds that may be necessary to complete the Project. Any amendment to the Project as set forth in the Application on file with the STATE must be submitted to the STATE for approval in writing. No amendment is allowed until written approval is given by the STATE.
- c. GRANTEE shall complete the Project in accordance with the time of Project performance set forth in this Agreement, unless an amendment has been approved and signed by the STATE under the terms and conditions of this Agreement. Amendments must be requested in

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advance and will be considered in the event of circumstances beyond the control of the GRANTEE, but in no event less than 90 days from the Agreement expiration date and in no event less than 60 days before the effective date of the amendment. Approval of amendment is at the STATE's discretion.

- d. GRANTEE certifies that the Project Scope of Work complies with all local, State, and federal laws and regulations.
- e. GRANTEE shall comply with the California Environmental Quality Act (CEQA) (Public Resources Code, Section 21000, et. seq. Title 14, California Code of Regulations, Section 15000 et. seq.) and all other local, State, and federal environmental laws. A copy of the certified CEQA document must be provided to STATE before any GRANT FUNDS are made available for any Project activity that could directly impact the environment (e.g. cutting, piling or burning bush, masticating, dozer work, etc.). CEQA compliance shall be completed within one (1) year from start date of the Agreement. The start date is considered the date the last party signs the Agreement. GRANT FUNDS will be made available in advance of CEQA compliance for project activities that do not have the potential to cause a direct environmental impact (e.g. project planning, locating and marking property or project boundaries, contacting and signing up landowners, etc.).
- f. GRANTEE shall permit periodic site visits by representative(s) of the STATE to ensure program compliance and that work is in accordance with the approved Project Scope of Work, including a final inspection upon Project completion.
- g. GRANTEE, and the agents and employees of GRANTEE, in the performance of this Agreement, shall act in an independent capacity and not as officers, employees, or agents, of the STATE.

4. Project Costs and Payment Documentation

- a. Payment by the STATE shall be made after receipt of an acceptable invoice and approval by a duly authorized representative of the STATE. GRANTEE shall submit an invoice for payment to the CAL FIRE Project Representative of the STATE. A final invoice shall be submitted no later than 30 days after completion, expiration, or termination of this Agreement.
- b. For services satisfactorily rendered, and upon receipt and approval of invoices for payment, the STATE agrees to compensate GRANTEE for actual expenditures incurred in accordance with the rates specified herein,

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which is attached hereto, as Attachment 3 – Final Project Budget, and made a part of this Agreement.

- c. Equipment purchased using GRANT FUNDS, wholly or in part, must be used by the GRANTEE for the project which it was acquired. STATE retains a vested interest in the equipment for the useful life of the equipment, even after completion of the grant. GRANTEE shall provide written disposition of the equipment upon completion of the grant and upon any changes to the disposition of the equipment. Such disposition must be approved in advance by STATE. Equipment purchased using GRANT FUNDS cannot be used as collateral, financed, or sold without prior written approval from the STATE.
- d. GRANTEE shall submit, in arrears, not more frequently than once a month, and no less than quarterly, an invoice to the STATE for costs paid by GRANTEE pursuant to this Agreement. Each invoice shall contain the following information: the Agreement number, the dates or time period during which the invoiced costs were incurred, expenditures for the current invoice and cumulative expenditures to date by major budget category (e.g., salaries, benefits, supplies, etc.), appropriate supporting documentation, project progress reports, and the signature of an authorized representative of GRANTEE as detailed in the Invoice Guidelines of the California Department of Forestry and Fire Protection 2017/18 California Climate Investments Urban and Community Forestry Program Grant Guidelines.
- e. GRANT FUNDS in this Agreement have a limited period in which they must be expended. All GRANTEE expenditures must occur prior to the end of the Project performance period of this Agreement.
- f. Except as otherwise provided herein, GRANTEE shall expend GRANT FUNDS in the manner described in the Project Budget Detail approved by the STATE. The dollar amount of an item in the Project Budget Detail may be increased or decreased by up to ten percent (10%) of the budget item through reallocation of funds from another item or items, without approval by the STATE; however, GRANTEE shall notify the STATE in writing in project progress reports when any such reallocation is made, and shall identify both the item(s) being increased and those being decreased. Any increase or decrease of an item of more than ten percent (10%) of the budget item must be approved in writing by the STATE before any such increase or decrease is made. A formal approved amendment is required to increase the total amount of GRANT FUNDS.
- g. GRANTEE shall promptly submit any and all records at the time and in the form as the STATE may request.

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h. GRANTEE shall submit each invoice for payment to:

California Department of Forestry & Fire Protection
Attention: James Scheid
2840 Mt Danaher Road,
Camino, CA 95709

i. Notwithstanding any of the provisions stated within this Agreement, the STATE may at its discretion make advance payment from the grant awarded to the GRANTEE if GRANTEE is a nonprofit organization that is located in or providing service to disadvantaged or low-income communities. Advance payment made by the STATE shall be subject to the circumstance and provisions below.

Where hardship circumstances exist for the GRANTEE, the STATE will consider authorizing advance payments. The STATE will consider the following factors in determining whether a hardship situation exists:

- Modest reserves and potential cash flow problems of the GRANTEE including the need for advance funding in order to initiate a project. A justification for advance payment may include items such as the inability to pay for staff, supplies, administration expenses, and to secure contractors for Project work.

The following guidelines will be applied to advance payments:

- Multiple advance payments may be made to a GRANTEE over the life of a project.
- No single advance payment shall exceed 25% of the total grant amount and must be spent on eligible costs within six months of the advance payment request. GRANTEE may request additional time to spend advance funds but must be approved in writing by the STATE. The balance of unspent advance payment funds not liquidated within the six month spending period will be billed for the return of the advanced funds to the STATE. The amount will be returned to the grant balance.
- A request for advance payment must include the same level of expenditure detail and justification as a regular invoice.
- All work under a previous advance payment must be fully liquidated via an invoice and supporting documentation and completed to the

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STATE's satisfaction before another advance payment will be made.

- Any advance payment received by a GRANTEE and not used for project eligible costs shall be returned to CAL FIRE.
- Advance payments must be deposited into an interest-bearing account. Any interest earned on advance payment funds must be accounted for and reported as program income used toward offsetting the project cost or returned to the STATE.

5. Budget Contingency Clause

- a. If STATE funding for any fiscal year is reduced or deleted for purposes of the Urban and Community Forestry Program California Climate Investments Grant Program, the STATE shall have the option to either cancel this Agreement with no liability occurring to the STATE, or if possible and desirable, offer an Agreement amendment to GRANTEE to reflect the reduced amount available for the Project.

6. Project Administration

- a. GRANTEE shall provide the STATE a written report showing total final Project expenditures and matching funds upon Project completion or grant expiration, whichever occurs first. GRANTEE must report to the STATE all sources of other funds for the Project. If this provision is deemed to be violated, the STATE will request an audit of GRANTEE and can delay the disbursement of funds until the matter is resolved.
- b. GRANTEE shall promptly submit written Project reports as the STATE may request throughout the term of this Agreement.
- c. GRANTEE shall submit a final accomplishment report, final invoice with associated supporting documentation, and copies of materials developed using GRANT FUNDS, including but not limited to plans, educational materials, etc. within 30 days of Project completion.

7. Financial Records

- a. GRANTEE shall retain all records described in Section 7(c) below for three (3) years after final payment by the STATE. In the case an audit occurs, all such records shall be retained for one (1) year from the date is audit is completed or the three (3) years, whichever date is later.

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- b. GRANTEE shall maintain satisfactory financial accounts, documents, and records for the Project and make them available to the STATE for review during reasonable times. This includes the right to inspect and make copies of any books, records, or reports of GRANTEE pertaining to this Agreement or matters related thereto.
- c. GRANTEE shall keep such records as the STATE shall prescribe, including, but not limited to, records which fully disclose (a) the disposition of the proceeds of state funding assistance, (b) the total cost of the Project in connection with such assistance that is given or used, (c) the amount and nature of that portion of the Project cost supplied by other sources, and (d) any other such records as will facilitate an effective audit. All records shall be made available to the STATE, other State of California agency, or other entity as determined by the State of California for auditing purposes at reasonable times.
- d. GRANTEE shall use any generally accepted accounting system.

8. Project Termination

- a. This Agreement may be terminated by the STATE or GRANTEE upon 30-days written notice to the other party.
- b. If either party terminates the Agreement prior to the completion of the Project, GRANTEE shall take all reasonable measures to prevent further costs to the STATE under the Agreement and the STATE shall be responsible for any reasonable and non-cancelable obligations incurred by GRANTEE in the performance of this Agreement prior to the date of the notice to terminate, but only up to the undisbursed balance of funding authorized in this Agreement.
- c. Failure by GRANTEE to comply with the terms of this Agreement may be cause for suspension of all obligations of the STATE hereunder at the discretion of the STATE.
- d. Failure of GRANTEE to comply with the terms of this Agreement shall not be cause for the suspension of all obligations of the STATE hereunder if in the judgment of the STATE such failure was due to no fault of GRANTEE. At the discretion of the STATE, any amount required to settle at minimum cost any irrevocable obligations properly incurred shall be eligible for reimbursement under this Agreement.
- e. Final payment to GRANTEE may not be made until the STATE determines the Project conforms substantially to this Agreement.

9. Hold Harmless

- a. GRANTEE shall defend, indemnify and hold the STATE, its officers, employees, and agents harmless from and against any and all liability, loss, expense (including reasonable attorney's fees), or claims for injury or damages arising out of the performance of this Agreement but only in proportion to and to the extent such liability, loss, expense, attorney's fees, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of GRANTEE, its officers, agents, or employees. The duty of GRANTEE to indemnify and hold harmless includes the duty to defend as set forth in Civil Code Section 2778. This Agreement supersedes GRANTEE's right as a public entity to indemnify (see Government Code Section 895.2) and contribution (see Government Code Section 895.6) as set forth in Government Code Section 895.4.
- b. GRANTEE waives any and all rights to any type of express or implied indemnity or right of contribution from the STATE, its officers, agents, or employees for any liability resulting from, growing out of, or in any way connected with or incident to this Agreement.
- c. Nothing in this Agreement is intended to create in the public or in any member of it rights as a third-party beneficiary under this Agreement.

10. Tort Claims

FEDERAL:

The United States shall be liable, to the extent allowed by the Federal Tort Claims Act 28 United States Code 2671-2680, for claims of personal injuries or property damage resulting from the negligent or wrongful act or omission of any employee of the United States while acting within the scope of his or her employment, arising out of this Agreement.

STATE:

The State of California shall be liable, to the extent allowed by law and subject to California Government Code, Title 1, Division 3.6, providing for the filing of tort claims against the State of California, for personal injuries or property damage resulting from the negligent or wrongful act or omission of State of California employees while acting within the scope of his or her employment, arising out of this Agreement.

11. Nondiscrimination

The State of California prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, sex, marital status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. GRANTEE shall not discriminate against any person on any of these bases.

12. Incorporation

The grant guidelines and the Project Scope of Work, Project Budget Detail and any subsequent amendments or modifications to the Project Scope of Work and Project Budget Detail approved in writing by the STATE are hereby incorporated by reference into this Agreement as though set forth in full in this Agreement.

13. Severability

If any provision of this Agreement or the Project Scope of Work thereof is held invalid, that invalidity shall not affect other provisions or applications of this Agreement which can be given effect without the invalid provision or application, and to this end the provisions of this Agreement are severable.

14. Waiver

No term or provision hereof will be considered waived by either party, and no breach excused by either party, unless such waiver or consent is in writing and signed on behalf of the party against whom the waiver is asserted. No consent by either party to, or waiver of, a breach by either party, whether expressed or implied, will constitute consent to, waiver of, or excuse of any other, different, or subsequent breach by either party.

15. Assignment

This Agreement is not assignable by GRANTEE either in whole or in part.

ADDENDUM – CALIFORNIA CLIMATE INVESTMENTS (CCI) GRANT PROJECTS

I. SPECIAL PROVISIONS

1. Grant funds shall be used on projects with the primary goal of reducing greenhouse gases (GHGs) and furthering the purposes of California's Global Warming Solutions Act of 2006, Division 25.5 (commencing with Section 38500) of the Health and Safety Code, and related statutes.
2. Grant funds shall be used on projects limited to specific activities as described in CCI Grants Procedural Guides.
3. Greenhouse gas emissions must be calculated using the CARB Greenhouse Gas Quantification Methodology applicable to the grant program (<https://ww2.arb.ca.gov/resources/documents/cci-quantification-benefits-and-reporting-materials>).
4. Grantee shall report project and benefits information when requested by the State. This may include, but is not limited to, funding expended, acres treated, GHG emissions, trees planted, disadvantaged community benefits, energy/water savings, job creation, and other co-benefits.
5. Grantee shall maintain accurate and detailed records documenting project description, project location, and schedule, CCI dollars allocated, and leveraged funds throughout the duration of the project.
6. Failure of Grantee to meet the agreed upon terms of achieving required GHG reduction may result in project termination and recovery of funds.

II. MONITORING AND REPORTING REQUIREMENTS

All funds expended through CCI are subject to emissions reporting and requirements. Grantee is expected to provide the appropriate materials for completing program quantification methodology. Grantee shall use the current reporting template provided by the STATE. The reporting shall be submitted to the STATE no less frequently than quarterly. In addition, STATE may request additional information in order to meet current CARB reporting requirements. The requirements are available on the CARB CCI Quantification, Benefits and Reporting Materials webpage: <https://ww2.arb.ca.gov/resources/documents/cci-quantification-benefits-and-reporting-materials>.

III. PROGRAM ACKNOWLEDGEMENT/RECOGNITION

1. All projects funded both fully and partially by the GGRF must clearly display, identify and label themselves as being part of the "California Climate Investments" program. The acknowledgement must contain the California Climate Investments and CAL FIRE logos as well as the following statement:

"Funding for this project provided by the California Department of Forestry and Fire Protection as part of the California Climate Investments Program."

A draft of the acknowledgement must be approved by the STATE prior to publication. For stationary projects, acknowledgement may include, but is not limited to, a sign on the project site. For other project types, such as vehicles, equipment, and consumer-based incentives, acknowledgement is encouraged by using a decal, sticker or other signage.

Guidance on California Climate Investments logo usage, signage guidelines, and high-resolution files are contained in a style guide available at:
www.caclimateinvestments.ca.gov/logo-graphics-request.

2. In addition, all projects funded both fully and partially by GGRF must contain the following statement in public announcements or press releases on said projects:

"The City of Oakland Tree Inventory Urban Forest Master Plan, and Tree Planning Project is part of California Climate Investments, a statewide program that puts billions of Cap-and-Trade dollars to work reducing GHG emissions, strengthening the economy, and improving public health and the environment—particularly in disadvantaged communities. The Cap-and-Trade program also creates a financial incentive for industries to invest in clean technologies and develop innovative ways to reduce pollution. California Climate Investments projects include affordable housing, renewable energy, public transportation, zero-emission vehicles, environmental restoration, more sustainable agriculture, recycling, and much more. At least 35 percent of these investments are located within and benefiting residents of disadvantaged communities, low-income communities, and low-income households across California. For more information, visit the California Climate Investments website at:
www.caclimateinvestments.ca.gov."



**2017/2018 Urban & Community Forestry California Climate Investment Grants
Project Application Form**

Fill out the form completely. Please see the submittal instructions at the bottom of the form. The Project Tracking Number requested is listed in the letter of invitation you received.



CAL FIRE Project Tracking Number: 17-CCI-UF-01-MGMT-0011

Name of Organization City of Oakland

Project Title City of Oakland Tree Inventory, Urban Forest Master Plan, and Tree Planting Project

Project Type Management Activities For GHG Reduction

RECEIVED
MAY 10 2018
GRANTS MANAGEMENT UNIT

Requested Grant \$ 970,130.08

Matching \$ 360,526.05

Total Project \$ 1,330,656.13

Primary Source of Technical Advice ISA Certified Arborist

Explanation (if required):

Professional's First Name David

Professional's Last Name Moore

1. Applicant information - Eligible applicants include cities, counties, qualifying districts, or nonprofit organizations qualified under section 501(c)(3) of the Internal Revenue Code.

Type of Organization City

1A. Primary Project Contact information

First Name Brian

Last Name Carthan

Email bcarthan@oaklandnet.com

Phone Number (510) 615-5510

Address 1 7101 Edgewater Drive

Address 2 Building 2

City Oakland

County Alameda

State California

Zip Code 94621

1B. Secondary Project Contact information

First Name David

Last Name Moore

Email dmoore@oaklandnet.com

Phone Number (510) 615-5852

Address 1 7101 Edgewater Drive

Address 2 Building 4

City Oakland

County Alameda

State California

Zip Code 94621

1C. Correspondence Details: List any information needed for project contacts, invoicing, etc.

Please include Administrative Assistant Cecila Garcia: cgarcia@oaklandnet.com, (510) 615-5934, 7101 Edgewater Drive Building 4, Oakland, CA 94621

2. Partner information - List primary project partners or co-sponsors. Applicants must provide a letter of commitment from each partner organization that affirms their role in the project.

2A. Name of Organization 1 | Oakland Climate Action Coalition

First Name | Colin | Last Name | Miller

Partner Contact Title | Coordinator

Email | colin@oaklandclimateaction.org | Phone Number | (646) 703-4837

Comments | Partner in community engagement process for master plan

2B. Name of Organization 2 | Friends of Sausal Creek

First Name | Anne Marie | Last Name | Schmidt

Partner Contact Title | Executive Director

Email | coordinator@sausalcreek.org | Phone Number | (510) 501-3672

Comments | Partner in master plan development and volunteer planting activities

2C. Additional Partners: list additional partner organizations with contact person, email address, and phone number.

Oakland Parks & Rec. Fdn. (Ken Lupoff, oaklandparks@sbcglobal.net (510) 465-1850); Oakland Unified School District (Curtis Sarikey superintendent@ousd.org (510) 879-8200); Arbor Day Foundation (Dan Lambe, dlambe@arborday.org, (402) 473-9573)

3. Grant Period: provide the estimated start and end dates of the grant project. This date cannot be after March 30, 2022. Final billing must be received within 30 days after the completion date.

Project Start Date | July 1, 2018 | Project Completion Date | March 30th, 2022

4A. AB 1550 - Disadvantaged and Low Income Communities. Denote the percentages of the project that will meet the AB 1550 criteria in *Grant Guidelines Appendix L* for disadvantaged and low income communities and low income households.

Step 1A: within the boundaries of a disadvantaged community (%) | 75

Step 1B: within the boundaries of a low income community (%) | 90

Step 1C: within 1/2 mile of disadvantaged community and within a low income community (%) | 25

Step 1D: provides jobs or job training to residents of low income households (%) |

Total for all steps in Step 1 (%) | 100

4B. Census tracts: list census tracts for the project that will meet AB 1550 criteria from *Grant Guidelines Appendix L*. Census tracts should be listed using the 10 digit number found for each tract on the map(s) at <https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-30>.

6001425104, 6001401000, 6001401100, 6001401700, 6001401500, 6001401400, 6001401300, 6001403501, 6001403501, 6001401600, 6001410500, 6001402200, 6001401800, 6001402400, 6001402500, 6001402700, 6001402600, 6001403100, 6001402800, 6001402900, 6001403400, 6001405301, 6001405302, 6001403000, 6001403300, 6001406000, 6001405401, 6001405500, 6001405600, 6001405402, 6001405700, 6001405800, 6001405902, 6001405800, 6001405901, 6001406400, 6001406300, 6001406201, 6001406202, 6001404800, 6001406602, 6001406500, 6001407200, 6001406100, 6001407101, 6001407102, 6001407300, 6001407400, 6001407600, 6001407000, 6001406900, 6001408800, 6001407500, 6001408700, 6001408200, 6001408400, 6001408500, 6001409700, 6001409800, 6001410100, 6001410200, 6001410400, 6001410300, 6001409600, 6001409700, 6001408900, 6001409000, 6001409400, 6001409300, 6001409200, 6001409100 (Steps 1A, 1B, and 1C add up to more than 100% because these zones overlap significantly and planting sites are TBD)

5. GHG Methodology: Fill in the GHG calculated amounts below. Describe the assumptions used to quantify GHG reductions using the ARB Quantification Methodology as required in the grant guidelines and found at: <https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/quantification.htm>. You are required to attach proof that the ARB specified quantification methodology was followed.

5A. Estimated carbon stored (MT CO2e)	4,075
5B. Estimated avoided emissions (MT CO2e)	0
5C. Estimated project emissions (MT CO2e)	204
5D Net GHG benefit (MT CO2e). (5A + 5B) - 5C =	3,872

We used the following assumptions in quantifying our GHG reductions using the ARB Quantification Methodology :

1) Twenty tree species will be planted, 35 of each species, for the sake of species diversity and site appropriateness. The species list is mainly large shade trees with proven urban tolerance in Oakland to optimize GHG benefits and minimize water and maintenance needs. Two of the twenty species are appropriate for planting under electric wires (*Cercis canadensis*, *Lagetroemia indica*), which will not be funded by Cal Fire, but may be used to complete a planting design that requires a small usage of underwire plantings. For example: a community group wants to plant street trees in front of their homes, but a small portion of those homes have overhead high voltage wires. Offering these smaller tree species for these specific instances would therefore be a benefit to the larger early action tree planting project

2) We used iTree Planting and created proxies for 5 tree species not found in Oakland's iTree Planting menu:

- Tristania laurina in lieu of Arbutus "Marina" and Geijera parvifolia
- Acacia spp. in lieu of Lophostemon confertus and Metrosideros excelsa
- Podocarpus gracilior in lieu of Lyonothamnus floribundus

3) Trees will be from #15 containers, therefore approximately 1.5" DBH at time of planting (per American Standard for Nursery Stock, ANSI Z60.1-2014). These are small enough for volunteers to plant but large enough to appear significant after planting. This container size is required by grant instructions.

4) All tree planting locations are assumed to be >60 feet away from buildings, for the sake of being as conservative in the GHG co-benefit projections as possible. This resulted in no projected energy savings for buildings. Actual planting locations will be determined by the community engagement process and will be a mix of street tree beds as well as landscaped parkland, depending on demand and operational considerations. It is likely that a portion of the trees will be planted near buildings in parks and directly in front of homes along sidewalks, though those locations are not yet confirmed.

5) Projections are based off of 40 year period, 0% mortality (as directed by grant instructions).

6) We used the maximum number of maintenance years (9) since our city has jurisdiction over all trees on streets and in parks and will be responsible for maintaining them through their lifetime.

All 700 tree plantings will be included in the tree inventory and incorporated into our department's urban forestry database for tracking and management purposes. Our department will utilize i-Tree and ARB's calculator to calculate the carbon sequestration and energy savings for all trees planted during this project. Quarterly tree planting tallies will be reported to Cal Fire, along with a running total of calculated benefits and co-benefits from all grant-related tree plantings. When the complete street, median, and urban park tree inventory is completed, tree benefits and co-benefits will be calculated with i-Tree and ARB's calculator and reported for the pre-existing trees in Oakland's urban forest.

6. Narrative. In the sections below, please follow the prompts and provide all relevant information for the project.

6A. Background. Describe the situation in the project area(s) and problems in the project area(s) that need attention.

An analysis performed by American Forests in 2016 shows that Oakland's tree canopy inequality has a strong correlation to the city's income inequality. While the city's average tree canopy coverage is 25%, the City Council Districts in the Oakland hills (1,4, and 6) have tree canopy coverages of 31.3%, 47.4% , and 34.8%, respectively. Meanwhile the City Council Districts in the flatlands (2,3,5, and 7), which are home to most of Oakland's disadvantaged communities (DAC's) and low income communities (LIC's), have tree canopy coverages of 17.7%, 6.5%, 12.0%, and 18.1%, respectively.

Numerous studies show that a lack of tree canopy is correlated with increased respiratory illness, particularly among children and senior citizens, as well as numerous other physical and psychosocial risks. The disadvantages associated with lower tree canopy coverage become compounded by the fact that those living in lower income neighborhoods are less equipped to pay for their healthcare or their own tree services.

Due to severe budget cuts in 2008, the City of Oakland is currently without a municipally-managed tree planting program to strategically plan for and address this canopy disparity. Oakland is experiencing an unknown but significant rate of canopy loss because a greater volume of mature tree canopy is being removed than is being replaced on an annual basis. Though non-profit entities are performing tree planting through other Cal-Fire grants, the structural pruning and maintenance of those trees is currently unfunded.

The City of Oakland is also currently without an updated inventory of trees on streets, medians, and urban parks, and without a routine inspection and structural pruning cycle for these trees. Without an inspection cycle of all trees, there is an unmeasured but significant liability of standing trees that may become or have become hazards to the public. Without routine structural pruning, mature trees are foregoing important maintenance that could mitigate structural issues and prolong their lifespans and resource benefit. Without an updated, comprehensive inventory, the City is not equipped to assess and evaluate where the greatest management, planting, and tree canopy priorities are, and without other important qualitative information regarding our urban forest's health, planning, and management. Therefore, the City of Oakland is unequipped to strategically address the tree canopy disparities that negatively affect the city's DAC's and LIC's.

6B. Project Objectives - What are the objectives of the proposed project? How do they address the situations and problems identified in the background section?

Objective 1: Conduct a complete inventory of all trees on streets, medians, and urban parks. The tree inventory will provide an accurate assessment of the current state of the urban forest (including its strengths, weaknesses, opportunities, and threats), management needs, and its current and potential social, environmental, and financial values. The data collected will provide opportunities to quantify tree canopy distribution on the neighborhood level as well as provide qualitative data such as condition and species. Cal Fire data collection protocols will be used to ensure the most robust inventory possible. Inventory results will be shared publicly for the benefit of all partners and Oaklanders. The US Forest Service Pacific Southwest Research Station has voiced interest in potentially using this data for scientific research and analysis that could produce important statistics and inform public policy in Oakland, as they have done for our neighbors in Berkeley (see: City of Berkeley, California, Municipal Tree Resource Analysis, by Maco et. al, 2005).

Objective 2: Complete a comprehensive urban forest master plan. The goals of the community-driven fifty year urban forest master plan are to 1) plan future tree planting to reach an equitably-distributed canopy goal, giving priority to our disadvantaged and low-income communities; 2) better understand the management needs of each city tree and develop strategies to address them; 3) inform policy makers on how the Tree Protection Ordinance can be improved and better-tailored to our management objectives; 4) coordinate efforts among partners, community stakeholders, and the City to establish and work towards common urban forestry goals; 5) secure funding for future tree planting and tree maintenance; and 6) address additional concerns identified through the community engagement process.

The urban forest master plan will reflect citywide goals for reducing GHG emissions and addressing climate change as stated in Oakland's 2012 Energy & Climate Action Plan (ECAP). Urban forestry is considered one of the most high-impact strategies to reach the citywide GHG reduction goal of 80% below 2005 levels by 2050.

Objective 3: Facilitate tree planting in Oakland's Disadvantaged Communities and Low Income Communities. With meaningful engagement from our community partners, we will strategically determine where new trees are most needed and demanded by community members, then focus tree planting efforts in those areas. Volunteer planting events will provide hands-on engagement with community members to educate them about the intentions and value of tree planting. Trees planted in DAC's and LIC's will provide numerous benefits to these communities in need, including carbon sequestration, reduced watershed pollution and sedimentation, cleaner air, extended usable life of streets and the storm drain system, improved human health, psychological benefits, and stronger community bonds.

6C. Scope of Work - Describe the approach to be used, the design (methods), and implementation of the project. Include who will be involved with specific tasks and justify why the approach, methods and implementation is the most effective way to accomplish the objectives. Include a description of project sign contents and their locations. *(continued on next page)*

1. The City of Oakland will hire a Grant Coordinator who has relevant experience and qualifications to perform the role. Under the direction of the Senior Tree Supervisor and with the support of other Oakland Tree Services staff, this person will be 100% dedicated to this Cal Fire grant. This includes the community engagement processes, the tree inventory process, the master plan process, tree planting operations and event organization, GHG monitoring and reporting, and any other related activities.

2. The City of Oakland will bid out services to inventory all street trees, park trees, and median trees within the city limits. To date, no comprehensive inventory has been completed in Oakland that captures tree species, condition, and size. Capturing this data is the first step of strategizing a better urban forest for Oakland. The inventory contractor will be managed by the Senior Tree Supervisor, Arborist Inspectors, and Grant Coordinator. Data collection protocols will be in line with industry standards, with data specifications that integrate into the city's GIS database for public view and interface. Empty street tree beds will also be inventoried for the sake of mapping potential street tree planting spaces. All tree inventory data will be made publicly accessible and integrated into the city's GIS tree database. The City of Oakland will customize the GIS database in such a way that it will be easier for planting non-profit partners to input their tree planting data from their own planting projects.

3. The City of Oakland will share and evaluate the results of the tree inventory with our listed partners and any other environmental agencies and non-profits who may request them. A public comment and feedback process will begin, reviewing the strengths, weaknesses, opportunities, and threats to Oakland's urban forest, with the goal of building consensus on equitable canopy distribution, tree management, preservation, and planting/canopy goals. The Urban Forest Master Plan Toolkit, designed by Cal Fire and the California Urban Forests Council, will be the guideline for creating the master plan. Project partners will be expected to participate in ongoing master plan meetings where they may ask questions, make comments, voice opinions and recommendations in setting goals and providing strategies to achieve them according to their interests and capabilities.

The community engagement process will build on complementary work undertaken during the City's Resilient Oakland Initiative (2016-2017), the development of the Energy & Climate Action Plan (ECAP, 2012), and in consultation with other City of Oakland departments, such as the Planning Department, Department of Race and Equity, Community & Economic Development Agency, and Department of Transportation. With the help of our partners, we will perform outreach and host meetings with stakeholders of Oakland's DAC's and LIC's, as well as community leaders representing public health, youth advocates, workforce and education programs, and racial equity and environmental justice advocates. The National Arbor Day Foundation will provide guidance on how the master plan can strengthen Oakland's status as a Tree City USA, and how to encourage and sustain engagement, partnership, and civic pride in the process.

After a public comment period and revisions, the urban forest master plan will be recommended to City Council for adoption. It will include a provision for periodic review and updating.

4. Tree plantings will be strategically located in DAC's and LIC's to provide environmental benefits and co-benefits to those communities. Volunteer planting events will engage community members and provide hands-on education and training regarding tree benefits and proper tree planting and care in accordance with International Society of Arborists and Cal Fire standards. Planting locations will be informed by the community engagement process and will be chosen on the criteria of: meeting the geographical requirements of the grant (100% of plantings will be within either DAC's, LIC's or both - with highest priority given to census tracts with CalEnviroScreen 3.0 scores with a rating of 71% or higher), community demand, site suitability, and operational/maintenance feasibility. Depending on these factors, some plantings may be deemed most appropriate to be planted by volunteers, others by Oakland Park and Tree Services staff. The Grant Coordinator and Senior Tree Supervisor will organize community tree planting events and coordinate volunteers with our listed partners and the City's Adopt a Spot volunteer program. The Senior Park Supervisor and area Park Supervisor(s) will assist in the vetting and organizing of tree planting projects occurring in City parks. Tree planting volunteers will be trained and led by the Senior Tree Supervisor, two Arboricultural Inspectors and the Grant Coordinator.

The tree selection and procurement process will be based off of which nurseries can successfully meet ANSI standards for nursery stock and ISA standards, with preference given to local non-profit tree growers (such as Friends of Sausal Creek and Planting Justice) who meet all required standards and the sizes, quantity, and diversity of species listed in this grant application. If local non-profit tree growers can meet all criteria except for species, the City of Oakland will consider appropriate and comparable species substitutions (with the permission of Cal Fire) in order to utilize their trees for planting projects.

6C. Scope of Work - Continued from previous page

The Grant Coordinator, with the support of the Senior Tree Supervisor and Arborist Inspectors, will lead the tree planting site survey process and coordinate volunteer planting events, including all the necessary preparation work leading up to the events such as deliveries and site preparation. In some situations, City park maintenance staff will assist in the care and watering of trees in City parks that are not maintained by volunteers and not on drip irrigation. This is limited to dry months during the three-year tree establishment period. At sites with active local Adopt a Spot volunteers, volunteers will water and provide care for the trees during the three year establishment period.

5. The Cal Fire/California Climate Investments/City of Oakland tree labels will be posted on one stake at each tree we plant. Upon funding, the project team will enlist the assistance of a designer to create a graphically-appealing version of this label. It will be submitted to Cal Fire for review before printing. The labels will identify project funders and provide information about the specific tree species, the estimated GHG benefits, estimated financial value, and additional tree facts to increase public understanding of trees and their benefits. The labels will also encourage volunteerism through the City's Adopt a Spot program and direct people where they can find out more information about Oakland's urban forest. The inspiration for these labels comes from similar signs produced by the Sacramento Tree Foundation and San Francisco's Friends of the Urban Forest.

6. With the robust data set collected during the inventory process and the insights developed during the master plan's community engagement process, the City will be equipped with comprehensive perspective on Oakland's urban forest. Tree preservation will certainly be a component of the master plan, and therefore the master plan process will prompt a re-evaluation of the City's Tree Protection Ordinance, which regulates public trees as well as trees on private property that are greater than 9" DBH. The ordinance has not been updated in 30 years, and an update may include revised and/or newly introduced regulations, facilitation methods, and enforcement measures.

The people of Oakland regularly provide feedback that the Ordinance requires updating and this grant would provide a great opportunity to do so. Updates to the ordinance will reflect the values of the the communities of Oakland and be structured to help facilitate the canopy goals of the master plan. The updated Ordinance draft will then be presented to City Council for ratification.

6D. Project Time Line - Provide a general project time line. Do not list specific dates or months due to uncertainty in when projects may begin. Plan on projects ending no later than March 30, 2022.

Months 0-9: Hire and train Grant Coordinator, issue request for proposal for tree inventory and master plan contract, award tree inventory and master plan contract, begin community outreach/engagement process for determining tree planting locations.

Months 9-21: Plan and execute tree inventory, ongoing community outreach and engagement.

Months 21-34: Share results of tree inventory with community stakeholders, synchronize data with the City's GIS tree map, facilitate community engagement and interagency collaboration for master plan process, draft master plan.

Months 34-45: present master plan to City Council for adoption, establish strategies to achieve goals, update Tree Protection Ordinance.

Ongoing from months 9-45: Plan, strategize, and facilitate tree plantings in DAC's and LIC's with combination of volunteers and City of Oakland staff, water and maintain planted trees.

6E. Tree Information (if applicable) - Provide the following information about any trees or plants to be planted as part of the grant project. Include information even if the trees or plants are not to be funded by CAL FIRE.

Species List - Provide a list of the tree and plant species for this grant project . Include common name, Genus, and species. Include the approximate number of each species to be used. List minimum planting stock size for each species.

35 of each of the following twenty tree species will be planted, for a total of 700 trees during this project. Each tree will be #15 container size:

California buckeye (*Aesculus californica*), strawberry tree (*Arbutus 'Marina'*), Eastern redbud (*Cercis Canadensis*), Australian willow (*Geijera parviflora*), maidenhair tree (*Ginkgo biloba*), golden rain tree (*Koelreuteria paniculata*), crepe myrtle (*Lagerstroemia indica*), bay laurel (*Laurus nobilis*), Brisbane box (*Lophostemon confertus*), Catalina ironwood (*Lyonothamnus floribundus*), New Zealand Christmas tree (*Metrosideros excelsa*), black tupelo (*Nyssa sylvatica*) Chinese pistache (*Pistacia chinensis*), London plane (*Platanus x hispanica*), Eastern African yellowwood (*Podocarpus gracillior*), coastal live oak (*Quercus agrifolia*), pin oak (*Quercus palustris*) cork oak (*Quercus suber*), California redwood (*Sequoia sempervirens*), silver linden (*Tilia tomentosa*)

This species list and breakdown may be subject to change depending on nursery quality/availability and planting site appropriateness. Large shade-providing trees with maximum GHG reduction benefit will always be prioritized over lesser trees, when space and conditions are appropriate. The City of Oakland is open to Cal Fire's feedback regarding tree species choices. Nursery availability may influence species chosen for planting, but the City of Oakland will request Cal Fire's permission before any species changes are made. Two underwire species (*Cercis canadensis* and *Lagestroemia indica*) are listed in the event that eager community tree advocates have a project in mind that requires a small portion of tree species appropriate for planting under high voltage power lines.

Total Project Trees:

Total CAL FIRE Funded:

6F. Other deliverables. List all other project deliverables and quantities to be funded by CAL FIRE, as well as overall project totals.

1. Complete Tree Inventory: Perform a tree inventory for streets, medians, and urban parks. The number of trees is estimated to be approximately 130,000 to 150,000 trees based on previous partial tree inventories, canopy coverage surveys, and tree planting activities of nonprofits and individuals in Oakland. Funding for this portion of the project is requested of Cal Fire.

2. The Oakland Urban Forest Master Plan: The document developed through collaboration between the community members, non-profits, and city agencies that will guide the management of Oakland's urban forest for the next fifty years, including identifying a tree canopy goal and providing recommendations for addressing environmental justice. Funding for this portion of the project is requested of Cal Fire.

3. Tree Planting: Planting of 700 trees in DAC's and LIC's, with the assistance of community members, volunteers, the City, and our partners to build community around tree planting. Funding for this portion of the project will come from the Paradise Trust (a fund donated by an Oaklander to the City for the purpose of tree planting).

7. Budget Information

7A. Budget Detail - Provide a specific budget for work to be done. The budget should be based on bid quotes and/or estimates from vendors or on actual costs that will be incurred. The line items listed should be specific enough to adequately describe project expenses. Use the Excel format CAL FIRE has provided for your budget, and follow the guidance in the Procedural Guide. You should note that applicants, if successful in being awarded a grant, will have to follow this budget and will only have the opportunity for minor budget adjustments. The total amount of the project can not be changed later.

7B. Vendor List - List the vendors that have provided you quotes or estimates for this project.

Oakland Public Works' non-collusion policies prohibit staff from discussing contract-related information with potential bidders before the bid takes place. Therefore, to estimate tree inventory and urban forest master plan costs, the City consulted with individuals with knowledge of similar projects in Roseville, CA, San Francisco, CA, and Pittsburgh, PA who have recently performed similar inventories and urban forest master plans. Prices for supplies, equipment, trees, printed materials, and irrigation were based on actual costs from other City projects. Vendors include the City of Oakland Reprographic Shop, Grainger, Ewing Irrigation, Oakland Climate Action Coalition, Friends of Sausal Creek, and Boething Treeland Farms.

7C. Explanation of Budget and Costs - Describe the basis for the budget amounts listed above. Applicants will be expected to adhere to this budget (*Continued on next page*).

Personnel: The City will hire one Grant Coordinator who will work full-time on this grant. Duties include but are not limited to: community outreach and consensus-building, volunteer coordination, tree planting planning and quality control, tree maintenance planning, public education, inventory/master plan contract management, data analysis, data entry, mapping, accounting, and grant reporting. The City of Oakland is required by law to pay all staff according to Union rates reflective of the duties of that position, including a complete benefits package. We acknowledge that these non-negotiable costs are significant and have therefore explored many options to reduce our personnel dollar request for this grant application. By re-purposing an existing budget line item for a Park Attendant, we will be paying 49% of the total cost for the Grant Coordinator from our internal budget. A 2% annual cost of living increase is reflected in the budget, though the actual amount would be dictated by future union negotiations.

Contractual: The City will request bids for tree inventory and master plan services. Oakland Public Works' non-collusion policies prohibit staff from discussing contract-related information with potential bidders before the bid takes place, therefore our methods of projecting budgets are limited. Using data from other cities who have conducted tree inventories, we expect the inventory to cost \$4.00 per tree. Based off of past inventory efforts, we estimate the City has approximately 55,000 street trees and approximately 90,000 park trees, costing an estimated \$575,000 to inventory.

We estimate the master plan process, including the extensive community engagement, to cost approximately \$100,000 total, \$46,000 of which will be focused on a robust community engagement and education process, co-led by partners Oakland Climate Action Coalition (OCAC) and City staff. OCAC will pay staff to facilitate community engagement in DAC's and LIC's, educate community members on the benefits of urban forestry and the master plan, organize and lead community meetings, create and disseminate urban forestry hand outs, surveys, and related items. The City of Oakland will match \$4,350 to pay for facility rentals for these efforts.

If the inventory costs less than projected,, those funds will be used to create a more robust master plan and community engagement process.

Travel: Estimated costs reflect a budget of \$50 per month for the Grant Coordinator to travel to and from meetings that take place across Oakland, some of which may be in the evening.

Tree Planting Supplies and Equipment: 700 trees will be planted with \$105,000 provided by matching funds allocated specifically for the purpose of planting trees. This includes the cost for all #15 size trees, two stakes each, arbor tie, site preparation, mulch, soil amendments, concrete removal (when needed), and educational signs that include tree species and value information as well as the logos of Cal Fire, California Climate Investments, and other partners. Each tree is expected to cost \$150 total. This cost also includes the purchasing and use of planting related tools, plus an estimated 10% attrition rate for tree replacement.

Education/Outreach: \$4,000 is requested for educational brochure design, printing, and other supplies required for the community engagement process. The City will match \$1,050 for signage placed at larger planting projects.

Other Direct Costs: The City requests \$35,000 for three cycles of follow up maintenance and watering for the newly planted trees to ensure their health and development after planting (\$50 per tree), thus fulfilling the grant's requirement for tree establishment.

7D. Matching Funds - List other non-GGRF funding sources, that will meet grant matching requirements.

Source 1	Paradise Trust	Amount	\$75,000.00
Description	Money that has been set aside by a donor for tree planting in the City of Oakland		
Source 2	City of Oakland Tree Services Annual Budget	Amount	\$30,000.00
Description	The City of Oakland will contribute these funds for tree planting supplies and expenses, in addition to the Paradise Trust funds listed above.		
Source 3	City of Oakland Tree Services Annual Budget	Amount	\$254,476.05
Description	\$254,476.05 will be applied to the total cost of the salary and benefits for the Grant Coordinator, paid for through Oakland Public Works' annual budget.		
Source 4	City of Oakland Tree Services Annual Budget	Amount	\$5,400.00
Description	These funds will be applied for facility rentals for the community engagement process and educational signs/stickers on tree stakes.		
Matching funds comments	Since all city employees belong to a union, the pay rate for the Grant Coordinator is determined by the union and non-negotiable. The City of Oakland has put forth its best effort on reducing personnel costs is by utilizing funds already budgeted for a Park Attendant and re-purposing them to help pay for the Grant Coordinator.		

8. Project Co-Benefits - What co-benefits will the project have? Check the boxes below for the applicable co-benefits, then describe and/or quantify them. Describe how the project will achieve the co-benefits.

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Stormwater reduction | <input checked="" type="checkbox"/> Improved public health | <input checked="" type="checkbox"/> Jobs created |
| <input checked="" type="checkbox"/> Improved water quality | <input type="checkbox"/> Enhanced active transportation | <input checked="" type="checkbox"/> Job training conducted |
| <input checked="" type="checkbox"/> Improved air quality | <input type="checkbox"/> Reduced vehicle miles travelled | <input checked="" type="checkbox"/> Community outreach conducted |
| <input checked="" type="checkbox"/> Energy savings | <input type="checkbox"/> Vacant lot(s) acquired | <input checked="" type="checkbox"/> Education tools/media produced |
| <input type="checkbox"/> Biomass diverted from landfill | <input checked="" type="checkbox"/> Improved urban forest management | <input type="checkbox"/> Other co-benefits |

Oakland's urban forest master plan will improve management of the City's trees by assessing the current state of the forest and strategizing recommendations to improve it, reach the canopy coverage goal, and identify approaches to sustainably fund maintenance. The plan may integrate with and/or provide guidance for other City plans, such as the Green Infrastructure Plan (addressing stormwater runoff mitigation and low impact development), the Vegetative Management Plan (addressing fire prevention and forest management in open space and wild land parks in the Oakland hills), and will fulfill requirements in Oakland's Energy and Climate Action Plan (ECAP) identified to help Oakland reach its GHG reduction goal of 80% of 2005 emissions by 2050. The City's Watershed and Stormwater Program already utilizes stormwater capture apparatuses with street trees; the urban forest master plan will further develop ways to use trees to mitigate stormwater runoff by thoughtfully choosing planting locations and removing the most square feet of impervious surfaces possible. These actions will improve water quality by preventing runoff that pollutes creeks and the bay. Planting locations and tree species will be selected strategically to provide the most benefit for reducing the effects of stormwater, especially in DACs that are prone to flooding. Locations will also address the urban heat island effect, increase urban habitat islands along green corridors in and near parks, and reduce building energy costs through building shading.

8. Project Co-Benefits - continued from previous page.

The master plan will strategize the goals and methods to provide equitable tree benefits to all Oaklanders. The master plan and planting of trees will improve air quality in Oakland's DACs, where air pollution is elevated due to freeways, commerce, and industry, as well as provide the many other benefits of trees for the communities that need them the most. Alameda County Public Health has found that residents of DACs in East and West Oakland have twice the rate of emergency room visits for asthma than anywhere else in Alameda County, which is attributed to the air pollution of the Port of Oakland and Interstate 880 in these highly industrialized areas. The County also attributes this air pollution to decrease life expectancy of DACs residents to be 10 years less than those who do not live areas as affected by air pollution. Planting trees in these communities will begin to address the air pollution issue and provide many additional benefits.

Trees have been shown to confer psychological benefits, including improvements to peoples' moods and student performance. Research also shows that trees make neighborhoods safer, with healthier inhabitants who pay less in energy costs. The master plan will identify the current number of trees, the number of trees to be planted to meet our canopy goal, and costs for appropriately maintaining this City asset. The inventory data will be analyzed in the master plan to provide concrete evidence of the value of Oakland's urban forest, intended to motivate support of the plan's recommendations for increasing funding for tree planting, maintenance, and education programs.

Community outreach and engagement will be conducted during the plan development and tree planting activities. Trees planted will have signs that educate and inform the public of the value of trees, and give credit to the City's funding sources and partners, as a way to encourage the public to learn about and appreciate the many benefits trees provide.

A Grant Coordinator position will be created through the funding of this grant.

9. Certifications & Forms- The following certifications must be filled out and signed by the appropriate person.

9A. Certification of Party Responsible For Maintenance

I, Appropriate representative

certify that the Appropriate agency

will provide or be responsible for 100% of the maintenance for a minimum of 3 years after the end of the grant period in accordance with ANSI A-300 tree care standards, the accompanying ISA Best Management Practices and the standards outlined in the grant agreement and/or grant attachments with the California Department of Forestry and Fire Protection.

Signature



Date

Title

Phone Number


9B. Statement of Compliance With All Applicable Laws (all projects must fill out and sign)

I, Appropriate representative

certify that the Appropriate agency

will abide by all applicable federal, state, and local laws, ordinances, regulations and policies in carrying out this State bond-funded project. Failure to do so will lead to cancellation of the grant award.

Signature




Date

Title

Phone Number

9C. Recycling Certification (all projects must fill out and sign) - This certification applies to all state contracts and, to the extent feasible, all federally funded contracts.

Contractor certifies under penalty of perjury that percent 30 of the minimum, if not exact, percentage of recycled content, both post consumer waste and secondary waste as defined in the Public Contract Code, Sections 12616 and 12200, in materials, goods, or supplies offered or products used in performance of this Agreement, regardless of whether the product meets the required recycled product percentages defined in the Public Contract Code, Sections 12161 and 12200. Contractor may certify that the product contains zero recycled content. (PCC 10233, 10308.5, 10354)

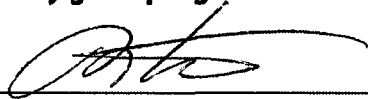
Signature  Date May 25, 2018
Title Park Services Manager Phone Number 510-615-5510

9D. Checklist of Necessary Forms To Be Completed. Some may not be applicable to your project.

- CAL FIRE Urban Forestry Program Environmental Checklist
- State of California Non-Discrimination Compliance (Std. 19)
- Proof of AB 1550 community designation.
- State of California Drug-Free Workplace Certification (Std. 21)
- Governing Body Resolution (must follow sample format)
- State of California Payee Data Record (Std. 204)
- Representative project area maps with AB 1550 information.
- Signed letters of participation from listed partners
- Project sign schematic (including CAL FIRE and CCI logos)
- Documentation of support (AB 1550 Step 2C)
- 5-10 representative site photos
- Proof that ARB quantification methodology was followed
- Urban and Community Forestry Project Budget
- Other:

List other attachments: Oakland Tree Protection Ordinance

SIGNATURE: The authorized primary project contact for the applying organization must sign below. This must be the person, or person holding the position, that is mentioned in the required governing body resolution, and the same person or position signing all of the other required forms. The signature indicates that, to the best of the signer's knowledge, all of the information provided in this application and all attached required forms and documents is accurate and correct. The signer additionally acknowledges that they have read and understand the grant program RFP and the Procedural Guide common to all of the CAL FIRE Urban & Community Forestry grant programs.

Signature 

Printed Name Brian Carthan
Title Park Services Manager Date May 25, 2018

Please fill out this form completely. Be sure to save a copy of this form for your records. Submit one (1) electronic copy in the fillable PDF format with all supporting materials to CALFIRE.Grants@fire.ca.gov. Please use "U&CF GGRF Project Application" in the E-mail subject line and include yourself as a cc. Your CC will be proof of your submittal. In addition, submit one (1) hard copy with signatures and all supporting materials to : California Department of Forestry and Fire Protection, Attention: Grants Management Unit/Urban and Community Forestry Greenhouse Gas Reduction Fund Grant, P.O. Box 944246, Sacramento, CA 94244-2460. Both hard copy and electronic copy must be postmarked no later than the due date in the invitation letter you received. If you would like to mail the hard copy via expedited/overnight mail, please E-mail CALFIRE.Grants@fire.ca.gov for the physical mailing address.

CAL FIRE Urban & Community Forestry Program GHG Reduction Grants

**Greenhouse Gas Reduction Fund - Urban and Community Forestry Program
Budget Proposal**

City of Oakland

Budget Item	Description	Cost Basis	CAL FIRE Grant Share	Grantee Match	Total
A. Salaries and Wages			\$ 149,406.71	\$ 145,182.59	\$ 294,589.30
	Grant Coordinator FY 19	12 months @ \$6,365.96	\$ 38,743.48	\$ 37,648.10	\$ 76,391.58
	Grant Coordinator FY 20	12 months @ \$6,493.28	\$ 39,518.35	\$ 38,401.06	\$ 77,919.41
	Grant Coordinator FY 21	12 months @ \$6,623.15	\$ 40,308.71	\$ 39,169.08	\$ 79,477.79
	Grant Coordinator FY 22	9 months @ \$6,755.91	\$ 30,836.17	\$ 29,964.35	\$ 60,800.52
B. Employee Benefits			\$ 112,473.37	\$ 109,293.46	\$ 221,766.83
	Grant Coordinator FY 19	12 months @ \$4,792.30	\$ 29,166.09	\$ 28,341.49	\$ 57,507.58
	Grant Coordinator FY 20	12 months @ \$4,888.14	\$ 29,749.41	\$ 28,908.32	\$ 58,657.73
	Grant Coordinator FY 21	12 months @ \$4,985.91	\$ 30,344.40	\$ 29,486.49	\$ 59,830.89
	Grant Coordinator FY 22	9 months @ 5,085.63	\$ 23,213.47	\$ 22,557.16	\$ 45,770.63
C. Contractual			\$ 671,000.00	\$ -	\$ 671,000.00
	Street & Urban Park Tree Inventory	~143,750 trees @ \$4 each	\$ 575,000.00	\$ -	\$ 575,000.00
	Master Plan writing		\$ 50,000.00	\$ -	\$ 50,000.00
	OCAC Master Plan Outreach	Planning and hosting 8 community events, education activities, and facility rental	\$ 46,000.00	\$ 4,350.00	\$ 50,350.00
D. Travel			\$ 2,250.00	\$ -	\$ 2,250.00
	Grant coordinator meetings		\$ 2,400.00	\$ -	\$ 2,400.00
E. Supplies			\$ -	\$ 101,500.00	\$ 101,500.00
	#15 container trees, delivery, staging, concrete removal, replacement trees (10% attrition)	700 @ \$115 per tree	\$ -	\$ 80,500.00	\$ 80,500.00
	Tree Planting Supplies (stakes, ties, pH kits, soil amendments, mulch, tree guards)	\$30 per tree	\$ -	\$ 21,000.00	\$ 21,000.00
F. Equipment			\$ -	\$ 3,500.00	\$ 3,500.00
	Planting equipment (stake drivers, hard hats, hammers, etc.)	\$5 per tree	\$ -	\$ 3,500.00	\$ 3,500.00
G. Outreach/Education			\$ -	\$ 1,050.00	\$ 1,050.00
	Cal Fire/CCI/Oakland Tree/Edu. Signs	700 @ \$1.50 each	\$ -	\$ 1,050.00	\$ 1,050.00
	filers, posters, door hangers		\$ 4,000.00	\$ -	\$ 4,000.00
H. Other			\$ 35,000.00	\$ -	\$ 35,000.00
	tree watering, maintenance	700 trees @ \$50 each	\$ 35,000.00	\$ -	\$ 35,000.00
TOTAL DIRECT COSTS			\$ 970,130.08	\$ 360,526.05	\$ 1,330,656.13
INDIRECT COSTS overhead					\$ -
TOTAL PROJECT COSTS			\$ 970,130.08	\$ 360,526.05	\$ 1,330,656.13
LESS Program Income			\$ -		\$ -
TOTAL GRANT PROPOSED COSTS			\$ 970,130.08	\$ 360,526.05	\$ 1,330,656.13
			73%	27%	100%



California Air Resources Board
California Climate Investments

Final Calculator Tool for
Urban and Community Forestry Program
Greenhouse Gas Reduction Fund
Fiscal Year 2017-18

Read Me Worksheet

The California Air Resources Board (CARB) is responsible for providing the quantification methodology to estimate greenhouse gas (GHG) emission reductions and other non-GHG outcomes, referred to as co-benefits (e.g. air pollution emissions estimates), from California Climate Investment projects receiving monies from the Greenhouse Gas Reduction Fund (GGRF).

This Urban and Community Forestry (UCF) Calculator Tool accompanies the quantification methodology for the fiscal year (FY) 2017-18 GGRF UCF Program available at: <https://www.arb.ca.gov/cci-quantification>

Applicants must use this UCF Calculator Tool to estimate the net GHG benefit and co-benefits associated with the Urban and Community Forestry projects. Refer to the quantification methodology document for background and step-by-step detailed instructions. To use this UCF Calculator Tool, follow these steps:

Step 1 Enter general project information: Enter the project name and the contact information for a person who can answer project specific questions from staff reviewers on the quantification calculations. Enter the date that the project completed the calculations.

Project Name:	City of Oakland 2018 Cal Fire Grant Application
Grant ID, if applicable:	17-CCI-UF-01-MGMT-0011
Contact Name:	Brian Carthan
Contact Phone Number:	510-616-5510
Contact Email:	bcarthan@oaklandnet.com
Date Completed:	5/24/2018

Step 2 Identify the project component(s): The applicant must select the appropriate project component(s) from the list of eligible urban forestry project components listed in the quantification methodology.

Step 3 Determine the inputs needed: The applicant will use the quantification methodology and the carbon calculator tools identified therein to determine the project information that must be input into this UCF Calculator Tool for the applicable project component(s) selected in Step 2. Many of the inputs will come from the output of urban forest carbon calculators identified in the quantification methodology.

Step 4 Estimate the net GHG benefit and co-benefits: The applicant will enter the project details identified in Step 3 into this calculator tool to calculate the net GHG benefit and co-benefits of the project.

Step 5 Submit documentation: Save file for submittal. This file will be submitted with other documentation requirements. See Section C of the quantification methodology for additional documentation requirements.

This UCF Calculator Tool allows users to estimate the net GHG benefit and co-benefits from a variety of specific urban forestry activities. Each eligible project component identified in Table 2 of the quantification methodology has a worksheet within the calculator (note: carbon stored in trees planted by the project and GHG emission reductions from energy savings as a result of strategically planting trees to shade buildings share a worksheet). Applicants must input data into the worksheets that apply to the proposed project. The UCF Calculator Tool provides fields for users to input project specific information. User input fields are shaded yellow and calculator outputs of GHG emission reduction estimates are shaded grey. After the user inputs are entered for each proposed project component, the GHG Summary worksheet displays the GHG benefit from each component, the GHG emissions from project implementation, the net GHG benefit over the project life, as well as the estimated total project GHG benefit per UCF GGRF funds requested and the estimated total project GHG benefit per total GGRF funds requested. The Co-Benefit Summary tab displays the fossil fuel based energy use reductions, renewable energy generation, quantity of trees planted, and co-pollutant emission reductions for ROG, NO_x, and PM_{2.5}.

Tab Formatting Guide

- All applicants must enter data into the worksheets with a green tab
- Information only; no data needs to be entered into worksheets with a black tab

Cells Formatting Guide

- User-input cells
- User-input cells with a drop-down menu (drop-down menu appears when the cell is activated)
- Cells with automated calculations

For more information on CARB's efforts to support implementation of Greenhouse Gas Reduction Fund investments, see:

<https://www.arb.ca.gov/auctionproceeds>.

Questions on this document should be sent to: GGRFProgram@arb.ca.gov

Questions on the Urban and Community Forestry Program should be sent to the CAL FIRE Urban Forestry Advisor nearest to the proposed project location. Contact information for Urban Forestry Advisors can be found at: http://calfire.ca.gov/resource_mgt/resource_mgt_urbanforestry_advisors



California Air Resources Board
California Climate Investments

Final Calculator Tool for
Urban and Community Forestry Program
Greenhouse Gas Reduction Fund
Fiscal Year 2017-18

Project Name:	City of Oakland 2018 Cal Fire Grant Application
Grant ID, if applicable:	17-CCI-UF-01-MGMT-0011

GHG Summary Worksheet

GHG Benefit of Carbon Stored in Live Project Trees Estimated Using i-Tree Planting (MT CO ₂ e)	4,075
GHG Benefit of Carbon Stored in Live Project Trees Estimated Using i-Tree Streets (MT CO ₂ e)	0
GHG Benefit from Energy Savings Estimated Using the i-Tree Planting (MT CO ₂ e)	0
GHG Benefit from Energy Savings Estimated Using i-Tree Streets (MT CO ₂ e)	0
GHG Benefit of Carbon Stored in Wood Products (MT CO ₂ e)	0
GHG Benefit from Utilizing Biomass for Energy Generation (MT CO ₂ e)	0
GHG Benefit from Preventing the Landfilling of Biomass (MT CO ₂ e)	0
GHG Emissions from Project Implementation (MT CO ₂ e)	204

Net GHG Benefit (MT CO ₂ e)	3,872
UCF GGRF Funds Requested (\$)	\$970,130
Total GGRF Funds Requested (\$)	\$970,130
Net GHG Benefit/UCF GGRF Funds Requested (MT CO ₂ e/\$)	0.003990737
Net GHG Benefit/Total GGRF Funds Requested (MT CO ₂ e/\$)	0.003990737
UCF GGRF Funds Requested/Net GHG Benefit (\$/MT CO ₂ e)	\$250.58
Portion of the Net GHG Benefit attributable to the GGRF funding from another CCI program	0



California Air Resources Board
California Climate Investments

Final Calculator Tool for
Urban and Community Forestry Program
Greenhouse Gas Reduction Fund
Fiscal Year 2017-18

Project Name:	City of Oakland 2018 Cal Fire Grant Application
Grant ID, if applicable:	17-CCI-UF-01-MGMT-0011

Co-benefit Summary Worksheet

Key Variable Summary

Fossil Fuel Based Energy Use Reductions (kWh)	0
Fossil Fuel Based Energy Use Reductions (therm)	0
Renewable Energy Generation (kWh)	0
Quantity of Trees Planted	700

Co-Pollutant Summary

	Tree Planting (ITP)	Tree Planting (ITS)	Energy Savings (ITP)	Energy Savings (ITS)	Wood Products	Electricity (Combustion)	Electricity (Gasification)	Total
ROG Emission Reduction Estimates (lbs)	N/A	N/A	0	0	0	0	0	0
NO _x Emission Reduction Estimates (lbs)	2,312	0	0	0	0	0	0	2,312
PM _{2.5} Emission Reduction Estimates (lbs)	420	0	0	0	0	0	0	420

Project Report - i-Tree Planting Calculator_{v1.1.3}

Location: Oakland, California 94602

Electricity Emissions Factor: 285.00 kilograms CO2 equivalent/MWh

Fuel Emissions Factor: 53.10 kilograms CO2 equivalent/MMBtu

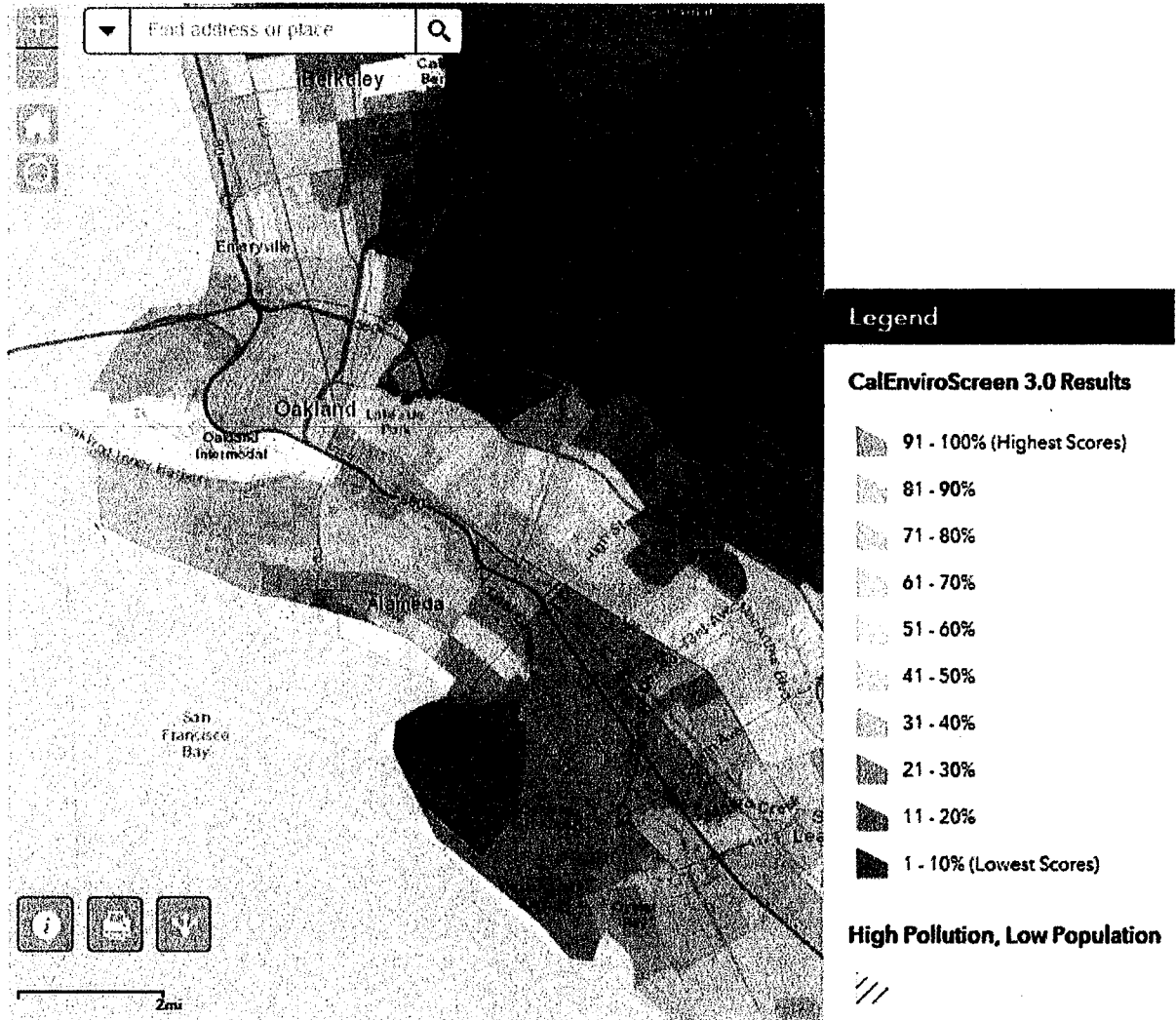
Lifetime: 40 years

Tree Mortality: 0%

All amounts in the tables are for the full lifetime of the project.

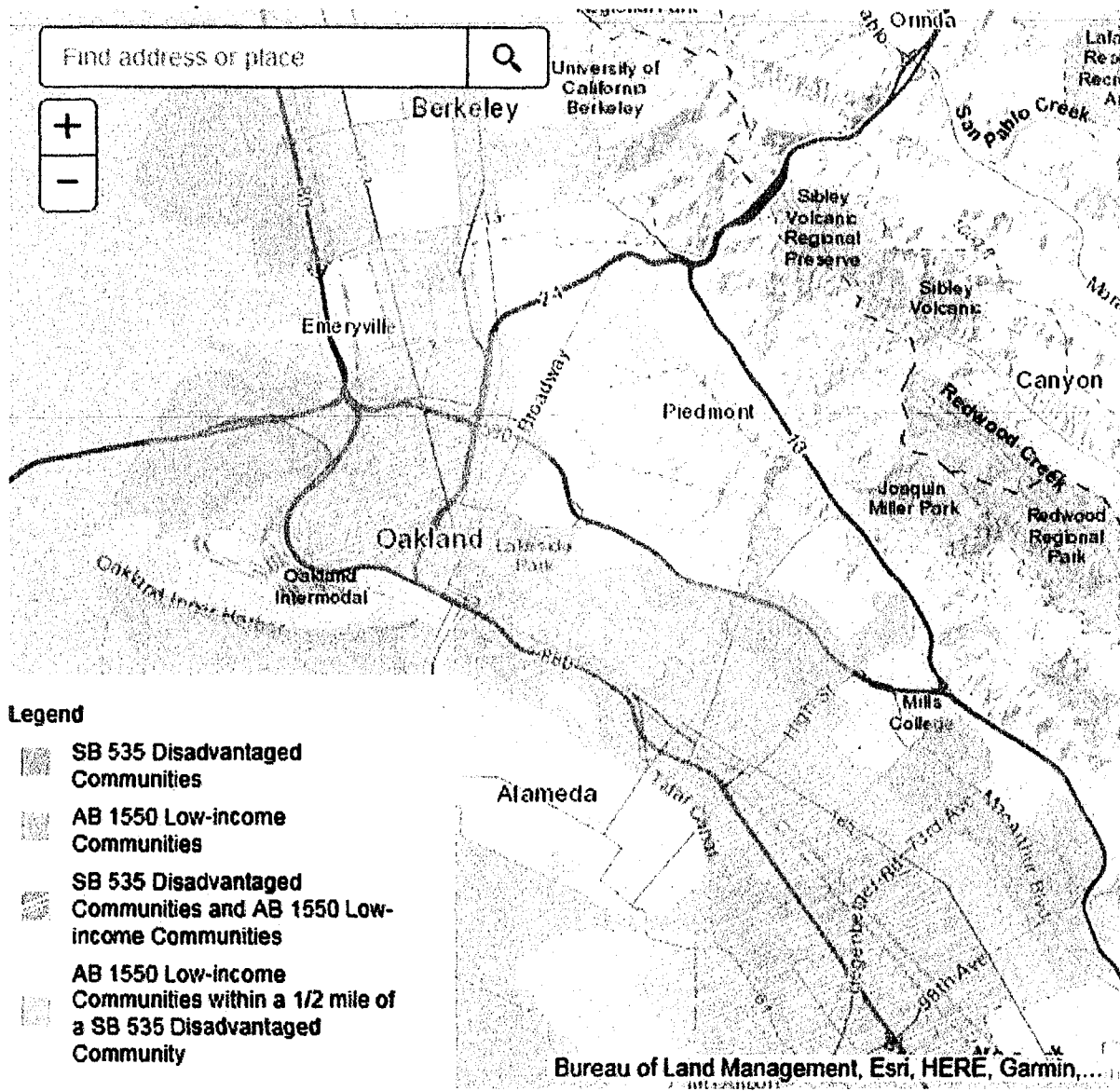


Oakland, CA CalEnviroScreen 3.0 Map



Early Action Tree Planting Work will be focused in the areas with the highest CalEnviroScreen 3.0 Results. The highest rated CalEnviroScreen 3.0 neighborhoods (71% and above) mostly coincide with Oakland neighborhoods rated as Disadvantaged Communities.

Oakland, CA Disadvantaged Community and Low-Income Community Map



The majority of Oakland’s Disadvantaged Communities overlap with Low-Income Communities. Early action tree planting efforts will be focused in DAC’s. We estimate that 75% of plantings will take place directly in DAC’s, 90% will take place in LIC’s, and 25% will take place in LIC’s within ½ mile of DAC’s.

Census tracts listed in section 4B of the grant application include all potential planting locations, as the early action plantings will be informed by community engagement that has not yet taken place.

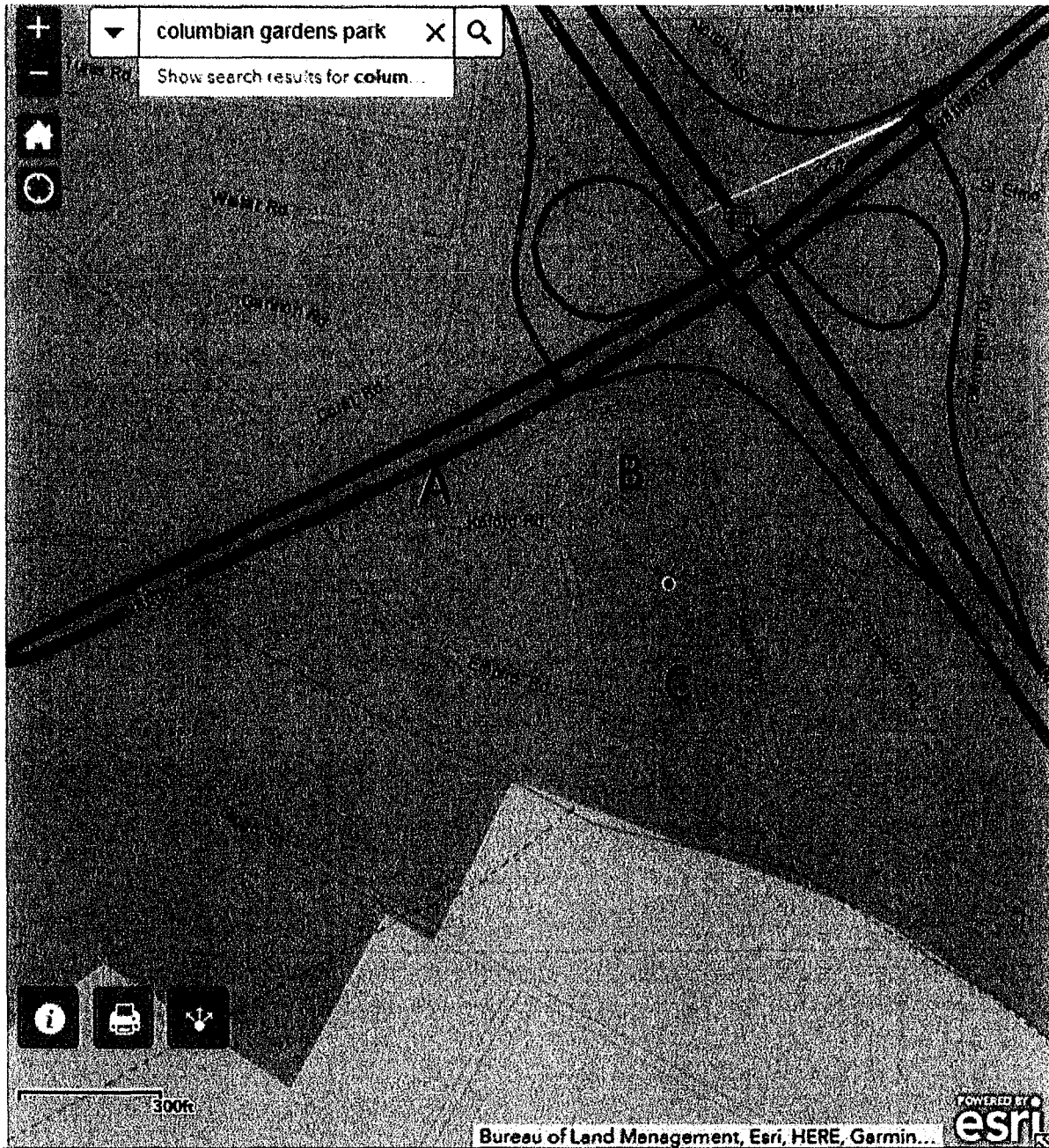
Representative Site 2: Lockwood Gardens Neighborhood



The CalEnviroScreen 3.0 map segment above depicts The Lockwood Gardens neighborhood (and surrounding areas) as located in census tract 6001408800, which has a score of 96 – 100%. This census tract is both a DAC and LIC. Lion creek runs through this area, draining into the San Leandro Bay and the San Francisco Bay. This census track is directly adjacent to the Oakland International Airport.

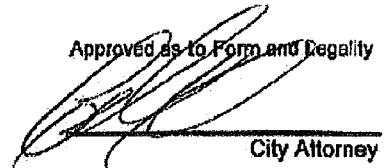
The letters in the above map (A and B) correspond to the following site photos:

Representative Site 1: Columbian Gardens Park



The CalEnviroScreen 3.0 map segment above depicts Columbian Gardens Park as located in census tract 6001409000, which has a score of 96 – 100%. This census tract is both a Disadvantaged Community (DAC) and Low Income Community (LIC). San Leandro Creek runs along the south edge of the park below Empire Road.

The letters (A, B, and C) in the above map correspond to the following site photos:



2010 SEP 12 PM 6:19

RESOLUTION NO. _____ C.M.S.

Resolution Authorizing The City Administrator to 1) Accept And Appropriate Nine Hundred Seventy Thousand, One Hundred Thirty Dollars and Eight Cents (970,130.08) From The California Department Of Forestry And Fire Protection (Cal Fire) Urban And Community Forestry Grant Program, As Provided Through The Greenhouse Gas Reduction Fund, For Completion Of A Citywide Street And Urban Park Tree Inventory, Development Of Oakland's Urban Forest Master Plan (UFMP), And The Planting Of Seven Hundred (700) Trees; 2) Waive The Advertising And The Competitive Request For Proposal/Qualification Selection Requirements For Related Community Engagement Services And Award A Contract To Oakland Climate Action Coalition In The Amount of Forty-Six Thousand Dollars (46,000); And 3) Authorize the City Administrator To Accept And Award A Contract For Citywide Street And Urban Park Tree Inventory And Oakland's Urban Forest Master Plan In An Amount Of Six Hundred Twenty-Five Thousand Dollars (625,000) To The Successful Proposer After Conducting A Competitive Request For Proposal Without Returning To Council.

WHEREAS, in 1932, the City Council adopted its first tree ordinance; and

WHEREAS, for 35 years, the City of Oakland has met the standards set by the National Arbor Day Foundation to be designated a Tree City USA®; and

WHEREAS, in 2012, the City Council approved Resolution No. 84126 C.M.S., adopting the City's Energy and Climate Action Plan (ECAP), which provides the actions and programs needed for the City to reach the goal of reducing greenhouse gas emissions 36 percent by 2020 and 80 percent by 2050; and

WHEREAS, the acceptance of the funding will allow the City to fulfill ECAP Priority Action 38 by developing and urban forestry master plan, and several other ECAP Transportation and Land Use Actions by performing the tree inventory and planting trees; and

WHEREAS, the Governor of the State of California in cooperation with the California State Legislature has enacted State of California Greenhouse Gas Reduction Funding, which provides funds to the State of California and its political subdivisions for urban forestry programs; and

WHEREAS, the State Department of Forestry and Fire Protection (CAL FIRE) has been delegated the responsibility for the administration of the program within the State, setting up necessary procedures governing application by local agencies and non-profit organizations under the program, and

WHEREAS, said procedures established by the State Department of Forestry and Fire Protection require the applicant to certify by resolution the approval of application before submission of said application to the State; and

WHEREAS, the applicant will enter into an agreement with the State of California to carry out an urban forestry project; and

WHEREAS, Oakland Municipal Code (“OMC”) section 2.04.051 requires the City to conduct a competitive Request For Proposals/Qualifications (“RFP/Q”) selection process; and

WHEREAS, OMC section 2.04.051 A permits the Council to waive the RFP/Q requirement upon a finding that it is in the best interests of the City to do so; and

WHEREAS, it is in the City's best interest to waive the Request For Proposal/Request For Qualifications (RFP/RFQ) competitive selection requirement pursuant to Oakland Municipal Code (OMC) Section 2.04.051.B and enter into a contract with Oakland Climate Action Coalition (OCAC) because it is in the best interests of the City to do so because the OCAC is uniquely qualified to conduct this work due to their role uniting and representing approximately thirty environmental, racial, and economic justice organizations throughout Oakland for the past seven years and acting during that time as a key convener for climate and equity issues, including playing the lead role in facilitating community engagement during the creation of the 2020 Energy and Climate Action Plan (ECAP); now, therefore be it

RESOLVED, that the City Council approved the filing of an application for “State Greenhouse Gas Reduction Funding” urban forestry grant program funds; and be it

FURTHER RESOLVED, That the City Council authorizes the appropriation of grant funds in an amount up to \$970,130.08 to be received and appropriated into State of California – Other Grant fund (2159), Tree Services Org 30654, Trees Program NP09, in a project to be established upon execution of the agreement with the State Department of Forestry and Fire Protection; and be it

FURTHER RESOLVED, that the City Council authorize the creation of 1.0 FTE limited duration Administrative Analyst II position that will be funded over the 3.5 year grant term in fund 2159 in the Department of Public Works; and be it

FURTHER RESOLVED, that the City Council certifies that the City of Oakland has or will have sufficient funds to operate and maintain the project; and be it

FURTHER RESOLVED, that the City Council certifies that the City of Oakland will expend grant funds prior to March 30, 2022; and be it

FURTHER RESOLVED, that the Council finds and determines that pursuant to OMC Section 2.04.051B, it is in the best interest of the City to waive the competitive RFP/RFQ selection requirements and so waives those requirements; and be it

FURTHER RESOLVED, that the City Council authorizes the City Administrator to appoint the Park Services Manager, or a designee, as agent of the City of Oakland to conduct all negotiations, execute and submit all documents including, but not limited to applications, agreements, amendments, payment requests and so on, which may be necessary for the completion of the aforementioned project; and be it

FURTHER RESOLVED, that the City Council authorize the City Administrator to accept and award a contract for a Citywide Street and Urban Park Tree Inventory and Oakland's Urban Forest Master Plan in an amount of \$625,000 to the successful proposer after conducting a competitive request for proposal without returning to Council; and be it

FURTHER RESOLVED, that a copy of the agreement will be on file in the City Clerk's Office and will be reviewed and approved for form and legality by the Office of the City Attorney.

IN COUNCIL, OAKLAND, CALIFORNIA, _____

PASSED BY THE FOLLOWING VOTE:

AYES - BROOKS, CAMPBELL WASHINGTON, GALLO, GIBSON MCELHANEY, GALLO, GUILLEN, KALB, KAPLAN, AND PRESIDENT REID

NOES -

ABSENT -

ABSTENTION -

ATTEST: _____

LaTonda Simmons
City Clerk and Clerk of the Council
of the City of Oakland, California