

**SANTA MONICA MOUNTAINS CONSERVANCY  
GRANT APPLICATION**

<b>Project Name:</b> Discovery Challenge Trails – Planning and Design	<b>Amount of Request:</b> \$250,000 <b>Total Project Cost:</b> \$5,270,880						
<b>Applicant Name:</b> Discovery Cube Los Angeles	<b>Matching Funds:</b> Secured: \$560,000 In Progress: \$3,826,880 <b>Lat/Long:</b> 34.2729/-118.3933						
<b>Applicant Address:</b> 11800 Foothill Blvd Los Angeles , CA 91342	<b>Project Address:</b> 11800 Foothill Blvd Los Angeles , CA 91342						
	<table border="1"> <tr> <td><b>County</b></td> <td><b>Senate District</b></td> <td><b>Assembly District</b></td> </tr> <tr> <td>Los Angeles</td> <td>18</td> <td>39</td> </tr> </table>	<b>County</b>	<b>Senate District</b>	<b>Assembly District</b>	Los Angeles	18	39
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Los Angeles	18	39					
<b>Phone:</b> 714-913-5022 <b>Email:</b> jadams@discoverycube.org	<b>Tax ID:</b> 45-5191270						

**Grantee’s Authorized Representative:**

Joe Adams, Chief Executive Officer	714-913-5022
<i>Name and Title</i>	<i>Phone</i>

**Overhead Allocation Notice:**

- Any overhead costs will be identified as a separate line item in the budget and invoices.
- The Conservancy encourages grantees to reduce overhead costs including vehicle and phone expenses.
- The overhead allocation policy has been submitted prior to, or with, the grant application.

**Outreach and Advertising Requirement:**

- Applicant has read the staff report and board resolution regarding contract policies.
- Applicant has adopted contract policies for the purpose of increasing outreach and advertising to disadvantaged businesses and individuals.

*All check boxes must be checked*

**Brief Project Description:**

The Discovery Challenge Trails will be an expansion of the Discovery Cube Los Angeles located in the existing outdoor courtyard in front of the building and extend into trails in the adjacent 150,000 sq.ft. section of the forest designated for Discovery Cube to activate with programming. The project will include several new hiking trails at different skill levels, a ranger station, map rooms, fossil room, lookout towers, swinging bridges, climbing stations, bike trails, animal encounters, and an interactive scavenger hunt to encourage hikers to explore and learn all the lessons the Challenge Trails have to offer. This grant will support planning and design for the Discovery Challenge Trails.

\*attach additional pages with project detail

<b>Tasks / Milestones:</b>	<b>Budget:</b>	<b>Completion Date</b>
Trail Design/Area Development (Landscape Architect)	\$45,000	December 1, 2019
Building and Hardscape Design	\$43,400	December 1, 2019
Educational Content & Technology Design	\$52,440	December 1, 2019





**PAYEE DATA RECORD**

STD. 204 (Rev. 6-2003) (REVERSE)

1	<p><b><u>Requirement to Complete Payee Data Record, STD. 204</u></b></p> <p>A completed Payee Data Record, STD. 204, is required for payments to all non-governmental entities and will be kept on file at each State agency. Since each State agency with which you do business must have a separate STD. 204 on file, it is possible for a payee to receive this form from various State agencies.</p> <p>Payees who do not wish to complete the STD. 204 may elect to not do business with the State. If the payee does not complete the STD. 204 and the required payee data is not otherwise provided, payment may be reduced for federal backup withholding and nonresident State income tax withholding. Amounts reported on Information Returns (1099) are in accordance with the Internal Revenue Code and the California Revenue and Taxation Code.</p>
2	<p>Enter the payee's legal business name. Sole proprietorships must also include the owner's full name. An individual must list his/her full name. The mailing address should be the address at which the payee chooses to receive correspondence. Do not enter payment address or lock box information here.</p>
3	<p>Check the box that corresponds to the payee business type. Check only one box. Corporations must check the box that identifies the type of corporation. The State of California requires that all parties entering into business transactions that may lead to payment(s) from the State provide their Taxpayer Identification Number (TIN). The TIN is required by the California Revenue and Taxation Code Section 18646 to facilitate tax compliance enforcement activities and the preparation of Form 1099 and other information returns as required by the Internal Revenue Code Section 6109(a).</p> <p>The TIN for individuals and sole proprietorships is the Social Security Number (SSN). Only partnerships, estates, trusts, and corporations will enter their Federal Employer Identification Number (FEIN).</p>
4	<p><b><u>Are you a California resident or nonresident?</u></b></p> <p>A corporation will be defined as a "resident" if it has a permanent place of business in California or is qualified through the Secretary of State to do business in California.</p> <p>A partnership is considered a resident partnership if it has a permanent place of business in California. An estate is a resident if the decedent was a California resident at time of death. A trust is a resident if at least one trustee is a California resident.</p> <p>For individuals and sole proprietors, the term "resident" includes every individual who is in California for other than a temporary or transitory purpose and any individual domiciled in California who is absent for a temporary or transitory purpose. Generally, an individual who comes to California for a purpose that will extend over a long or indefinite period will be considered a resident. However, an individual who comes to perform a particular contract of short duration will be considered a nonresident.</p> <p>Payments to all nonresidents may be subject to withholding. Nonresident payees performing services in California or receiving rent, lease, or royalty payments from property (real or personal) located in California will have 7% of their total payments withheld for State income taxes. However, no withholding is required if total payments to the payee are \$1,500 or less for the calendar year.</p> <p>For information on Nonresident Withholding, contact the Franchise Tax Board at the numbers listed below:          Withholding Services and Compliance Section: 1-888-792-4900 E-mail address: wscs.gen@ftb.ca.gov          For hearing impaired with TDD, call: 1-800-822-6268 Website: www.ftb.ca.gov</p>
5	<p>Provide the name, title, signature, and telephone number of the individual completing this form. Provide the date the form was completed.</p>
6	<p>This section must be completed by the State agency requesting the STD. 204.</p>
	<p><b><u>Privacy Statement</u></b></p> <p>Section 7(b) of the Privacy Act of 1974 (Public Law 93-579) requires that any federal, State, or local governmental agency, which requests an individual to disclose their social security account number, shall inform that individual whether that disclosure is mandatory or voluntary, by which statutory or other authority such number is solicited, and what uses will be made of it.</p> <p>It is mandatory to furnish the information requested. Federal law requires that payment for which the requested information is not provided is subject to federal backup withholding and State law imposes noncompliance penalties of up to \$20,000.</p> <p>You have the right to access records containing your personal information, such as your SSN. To exercise that right, please contact the business services unit or the accounts payable unit of the State agency(ies) with which you transact that business.</p> <p>All questions should be referred to the requesting State agency listed on the bottom front of this form.</p>

# Grantee Data Sheet

Print Form



State of California  
The Natural Resources Agency  
Santa Monica Mountains Conservancy

5750 Ramirez Canyon Road  
Malibu, California 90265  
Phone: 310-589-3200  
Fax: 310-589-3207  
www.smmc.ca.gov

Date:

New  Revised

Grantee Name:   
Address:   
State/Province:   
Zip/Postal Code:   
Tax ID Number:

Phone:   
Fax:

Project Name:

## Information

Will administrative/overhead costs be included?

If yes, is the overhead policy attached to this sheet?

Will vehicle costs be included?

If yes, is the vehicle policy attached to this sheet?

Will cell phone costs be included?

If yes, is the phone policy attached to this sheet?

I have completed and submitted the STD 204 Payee Data Record form.

I have read and accepted the policies and procedures within the Santa Monica Mountains Conservancy Grant Administration Manual.

I am aware that the Santa Monica Mountains Conservancy has urged a reduction of costs associated with overhead, cell phone, and vehicle charges.

\*If a reduction in the above costs has been made, please document the reductions and attach to this data sheet.

## Primary Contact Information

Name (1):   
Address:   
State/Province:   
Zip/Postal Code:   
Phone (1):   
Phone (2):   
Fax:   
Email:

Name (2):   
Address:   
State/Province:   
Zip/Postal Code:   
Phone (1):   
Phone (2):   
Fax:   
Email:

Notes:

Signature Field

**Discovery Challenge Trails Location:** The Discovery Challenge Trails will be an expansion of the Discovery Cube Los Angeles and be located in the existing outdoor courtyard in front of the building and extend into the adjacent park.



**Discovery Challenge Trails Location:** The Discovery Challenge Trails will be an expansion of the Discovery Cube Los Angeles and be located in the existing outdoor courtyard in front of the building and extend into the adjacent park.





# California Conservation Corps and Certified Community Conservation Corps



## Proposition 68 – Parks, Environment and Water Bond

### *2018 Corps Consultation Review Document*

Except for an exempted project, this Corps Consultation Review Document shall be completed by California Conservation Corps and Certified Community Conservation Corps (hereafter collectively referred to as Corps) staff and must accompany applications for funding through Proposition 68, Chapter 1, Division 45: California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access for All Act of 2018. Please see the [Corps Consultation Process](#), starting with Step 1 on Page 1 of this attachment. Applications that do not include this document demonstrating that both Corps have been consulted will not be given preference for receipt of a grant.

All Implementation projects require Corps consultation. Applicants for all Proposition 68 Planning or Scientific Studies projects must consult with both Corps if the project includes any field work (including but not limited to baseline studies, invasive plant removal, native plant propagation, mapping, and site maintenance). Only projects without field work are exempt from the consultation process and do not need to submit the Corps Consultation Form to Funding Entities.

1. Name of Applicant: Discovery Science Center of Los Angeles dba Discovery Cube Los Angeles  
Project Title: Discovery Challenge Trails  
Department/Conservancy to which you are applying for funding: CNRA's CCNR Grant

#### **To be completed by Applicant:**

Is this application solely for planning or acquisition?

- Yes (application is exempt from the requirement to consult with the Corps)
- No (proceed to #2)

#### **To be completed by Corps:**

This Consultation Review Document is being prepared by:

- The California Conservation Corps (CCC)
- California Association of Local Conservation Corps (CALCC)

2. Applicant has submitted the required information by email to the California Conservation Corps (CCC) and California Association of Local Conservation Corps (CALCC):
  - Yes (applicant has submitted all necessary information to CCC)
  - No (applicant has not submitted all information or did not submit information to both Corps – application is deemed non-compliant)
3. After consulting with the project applicant, the CCC and CALCC has determined the following:
  - It is NOT feasible for CCC and/or certified community conservation corps services to be used on the project (deemed compliant)
  - It is feasible for the CCC services to be used on the project and the following aspects of the project can be accomplished with Corps services (deemed compliant):

CCC Corpsmembers from the Pomona Center and Los Angeles Satellite Center can assist with all aspects of this project except for the installation of solar panels.

CCC and CALCC Representatives will return this form as documentation of consultation to applicant via email within five (5) business days of receipt as verification of consultation. Applicant will include copy of this document as part of the project application.

If the Corps determine it is feasible to use their services on the project, applicant will coordinate with the Corps to develop estimated costs for those services for inclusion in the budget.

The Corps must be consulted each grant cycle prior to application. If past consultations are submitted, the requirement is not met.



# Conceptual Artist Rendering





## **Discovery Challenge Trails**

Santa Monica Mountains Conservancy  
Proposition 68 Grant Program Proposal

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## DETAILED PROJECT DESCRIPTION

The Discovery Challenge Trails will be an expansion of Discovery Cube Los Angeles designed to inspire our community to explore, understand, and protect the great outdoors. This project will connect visitors to the native animals and plants that share our region and be knowledgeable of the issues they face. Additionally, the project aims to deepen people's understanding of the science of nature, especially the effects of global warming on the Los Angeles environment encouraging our community to do more to prevent wildfires and do their best to be stewards of Southern California's natural environments. Finally, the project aims to motivate Southern Californians to be fit by taking hikes and provide them the skills and awareness for healthy & safe hiking activities.

The Discovery Challenge Trails expansion will be partially located in the existing outdoor courtyard in front of the building and extend into adjacent trails located in the section of the Hansen Dam Park forest designated for Discovery Cube to activate with programming. A site map is included with this application to illustrate where the project will be located.

The project will include several new hiking trails at different skill levels, a ranger station, map rooms, fossil room, lookout towers, swinging bridges, climbing stations, bike trails, animal encounters, and an interactive nature discovery station. A conceptual rendering of the project is included with the application to illustrate these planned project components. The Discovery Challenge Trails are envisioned to have an interactive visitor engagement system called Nature Quest as an important overlay to the trail features. Nature Quest would tie all the interactive learning areas together through an electronic educational scavenger hunt overlay.

To maximize project impact and outreach, Discovery Cube Los Angeles has partnered with the City of Los Angeles Parks and Recreation Department, Cedars Sinai Hospital, Garmin, and the Pasadena Art Center to create a Los Angeles specific app. The app will be designed to encourage residents to take hikes in parks all across Los Angeles, rewarding them for steps taken, and educating them about the science of nature. Initial introduction to the program and the app will be at Discovery Challenge Trails. While the app is part of the project, the app development will be funded through Cedars Sinai Hospital and not part of the planning phase and construction phase budgets for this project.

## SCOPE OF WORK

<b>Task</b>	<b>Description</b>	<b>Budget</b>	<b>Expected Completion Date</b>
Trail Design/Area Development (Landscape Architect)	DCLA's selected Landscape Architect will complete a professional trail design for the project	\$45,000	December 1, 2019
Building and Hardscape Design	DCLA's selected architect will complete the architectural and engineering design for the building components of the project	\$43,400	December 1, 2019
Educational Content and Technology Design	This item includes development and curation of the educational content that will be included throughout the project, including on marquees and educational signs. It will also include the design for the technology that will be featured in the project to display the educational content.	\$52,440	December 1, 2019
Direct Project Management	This item includes direct management of the overall project with regards to schedule, budget, and meeting the DCLA's expectations.	\$45,160	December 1, 2019
Community Research	This item includes outreach and research that DCLA will conduct to ensure that the design of the project and the educational content featured in the project meets the needs and interests of the local community	\$10,000	December 1, 2019
Concept Artwork	This item includes the cost of developing conceptual artwork for the project, which will be used to develop the architectural and engineering designs	\$23,000	December 1, 2019
Permitting Fees	This item includes the estimated cost of acquiring all necessary permits for the projects. Exact permits to be acquired will be determined during the planning process	\$10,000	December 1, 2019
Project administration, accounting, and employee services 5%	This item includes estimated overhead costs for all aspects of developing project design	\$10,500	December 1, 2019
Contingency 5%	This item accounts for estimated contingency costs that will be incurred in the process of developing project design	\$10,500	December 1, 2019

## PROJECT NARRATIVE

### ***Description of need and urgency for the grant***

The Discovery Challenge Trails will meet a number of urgent environmental, public health, and educational needs in the local and statewide community as described below:

**Youth Health, Fitness, and Active Recreation:** This project will encourage visitors, particularly school-aged children, to lead active, healthy lifestyles and will combat the ongoing childhood obesity epidemic by fostering engagement with local outdoor recreational opportunities. According to a [2016 report from the California Department of Public Health](#), nearly 21% of California's 5<sup>th</sup> grade students were obese in the 2014-2015 school year. In Los Angeles County, a [2011 Cities and Communities Health Report](#) from the Department of Public Health found that 23% of school-aged children in the county were obese, with the highest obesity prevalence being found in communities that face economic hardship. These figures illustrate the critical need for educational and recreational opportunities in our most underserved communities, and the need to connect children with existing outdoor recreation opportunities. The Los Angeles metropolitan area offers a wealth of parks, trails, and outdoor recreational pursuits; the educational components of this project will instill visiting children with a love of the outdoors and encourage them to engage with nature and to lead active, healthy lifestyles as they grow into adults.

**Wildfire Prevention:** By providing an interactive learning opportunity about wildfires and related climate issues that directly impact the community, this project will be an education asset to the community that will meet a critical need for wildfire prevention education. DCLA, like many communities across Southern California, is located in an area that is vulnerable to increasingly frequent and severe wildfires, as recent wildfire seasons have shown. Just last year, the Woolsey fire devastated communities in Los Angeles and Ventura Counties, including in the San Fernando Valley where DCLA is located. Being located in Southern California, DCLA is also in a region that is vulnerable to drought, particularly as climate change contributes to the occurrence of longer and more severe drought periods. The proposed project includes numerous educational aspects that will help raise awareness about local impacts of climate change, which will help empower the community to adapt now and in the future. For instance, interactive displays throughout the trails will provide information about climate change and the detrimental impact of climate-related events, such as wildfires, on natural resources. Many of those who will interact with the experience are young students and/or members of low-income communities of color, both of which are populations particularly vulnerable to displacement resulting from climate change.

**Wildlife Awareness and Appreciation:** A core element of this project is a call to action to raise awareness for the need to protect local wildlife; this element will be a major part of the project's educational features. With increasing news coverage of the unexpected interactions that occur between humans and wildlife in our urbanized community, it is important that people know how to interact with wildlife in these situations. Moreover, it is important for the community to understand and appreciate the impact that human life and society has on nature, and to be respectful of the animals that live in and around our communities. The wildlife awareness educational components of this project will help visitors be better stewards of nature and of the environment, as well as better protectors of animals who are placed in harm's way when they encounter humans in their natural habitat. With a majority of DLCA's visitors being children, this

## DISCOVERY CUBE LOS ANGELES – DISCOVERY CHALLENGE TRAILS

project is uniquely positioned to have a lasting impact on these young minds for generations to come, instilling in them a sense of environmental and wildlife stewardship as they grow into adults.

**Trail and Hiking Safety:** This project will include interactive education on trail and hiking safety measures to ensure that visitors will be prepared when they participate in recreational hikes in the surrounding community. Trail safety information will cover topics such as bringing sufficient water when hiking on trails, wearing appropriate shoes, and always completing trails with a partner to minimize the likelihood of injury or stranding. It is critical to disseminate trail safety education to ensure that people of all ages can safely engage with nature throughout their life, and this project will ensure that all DCLA visitors have access to this knowledge.

**Bicycle Safety:** This project will include numerous biking trails and a biking program. One component of the project's biking program will emphasize the use of helmets to ensure that visitors have the knowledge to safely use bicycles in their day-to-day life, which will benefit public safety and help prevent bike-related accidents in the future.

Additionally, the project will meet a critical need for investment in recreational opportunities in the historically disadvantaged San Fernando Valley area and will represent an expansion of DCLA's robust educational programming. Currently, DCLA impacts and offers learning opportunities to the more than 200,000 visitors that it receives annually in addition to the 132,000 students that it reaches through its extensive offsite outreach programs. The addition of a permanent and immersive recreational experience will amplify the public benefit that DCLA provides, teaching visitors of all ages how to personally make changes that will collectively benefit their community and the natural environment. Further, by investing in a disadvantaged area, the project aligns with the state goal of rectifying the historic lack of investment in disadvantaged areas across California and in developing new recreational opportunities that enable Californians to learn about and experience the outdoors, improve their physical and emotional health, exercise, and connect with their communities.

Although there are a number of State and Federal grants that support projects of this nature, the majority of these opportunities are restricted to project implementation and construction. As such, any funding secured for project design and planning will position the project to be eligible and competitive for future implementation grant opportunities. If the project plans cannot be completed in the near future, the project will miss upcoming opportunities for implementation funding, which cannot be competitively pursued until planning and designs for the project are fully completed.

### ***Description of how the project will provide multi-benefit ecosystem, water quality, water supply, and watershed protection and public benefits***

This project will increase awareness of the multiple benefits of protecting ecosystems, the importance of water quality, and the need for watershed protection. With the proximity to nearby watersheds such as the Big and Little Tujunga Creeks, the educational components of this project will place a great emphasis on protecting water resources and water habitats. Through their experiences on the project's trails, visitors will be equipped with the knowledge necessary to be stewards of our local watersheds and habitats.

Additionally, the design of the proposed project incorporates numerous multi-benefit water conservation features. To improve stormwater capture, for instance, the installation will include a

## DISCOVERY CUBE LOS ANGELES – DISCOVERY CHALLENGE TRAILS

relocated and redesigned water retention pond. The facility currently has a water retention pond, but design drawbacks have led to frequent water spillage from the existing pond. Redesigning and relocating the pond so that it better captures rainwater will enhance the drought tolerance of the new project and will contribute to the preservation of scarce water resources in the region, while also representing an overall improvement to the facility. The project will also include a reusable water bottle refilling station, which will provide safe and reliable drinking water to visitors and encourage visitors to use refillable bottles rather than single-use plastic bottles.

### ***Description of how the project achieves one or more of the purposes of Proposition 68***

This project achieves several of the purposes of Proposition 68, including:

- **Addressing a critical statewide need for investments to create and improve parks and recreation areas** as described in 80001 (a)(4), as this project will create new recreation area with an emphasis on natural resource education
- **Providing urban recreation** as described in 80001(b)(4), as it will create a new recreational opportunity in a densely populated urban setting
- **Provides workforce education and job opportunities for disadvantaged communities** as described in 80001(b)(5), as the addition of a new installation will create a need for new caretakers to oversee the installation area once completed, which will present new job opportunities for members of this community. The expansion will also create a need for additional volunteers, who receive training and develop transferable job skills over the course of their volunteer experience. This is especially the case for high school student volunteers from the surrounding community, who gain professional experience that will be valuable to them in future internship or other professional experiences as they move forward with their careers.
- **Advances solutions to prevent displacement** as described in 80001(b)(9) - It is not anticipated that displacement will be a consequence of this project. The project entails the installation of a new experience on the grounds of the existing DCLA Science Center and will repurpose an area of the grounds that is currently underused. As such, it will not risk the displacement that often occurs when existing buildings are demolished to make way for new developments. Being located in a disadvantaged the community, the addition of a new permanent installation will represent a net benefit for the community, as it will be a new educational and cultural resource that members of the community can access
- Achieves multiple actions identified in the “Presidential Memorandum – Promoting Diversity and Inclusion in our National Parks, National Forests, and other Public Lands and Waters,” including:
  - 80001(b)(8)(A) – **Conducting active outreach to diverse populations, particularly minority and low-income populations.** This project includes a partnership with the Lopez Canyon Fund, which will provide \$200,000 to support school fieldtrip scholarships to ensure that the surrounding community has access to the project. Being located in such close proximity to disadvantaged and severely disadvantaged community, this project has a natural reach to these communities, and DCLA is proactive in engaging these communities through social media and promotional campaigns. The project budget also includes community research to



## DISCOVERY CUBE LOS ANGELES – DISCOVERY CHALLENGE TRAILS

ensure that project design and programming meet the needs and interests of the local community

Furthermore, at present, DCLA impacts and offers learning opportunities to the more than 200,000 visitors that it receives annually in addition to the 132,000 students that it reaches through its extensive offsite outreach programs. The addition of a new permanent installation will amplify the public benefit that DCLA provides, teaching visitors of all ages how to personally make changes that will collectively benefit their community and the natural environment.

- 80001(b)(8)(C) – **Creating new partnerships with state, local, tribal, private, and nonprofit organizations.** DCLA will work with multiple partners to implement the multiple components of this project, including the City of Los Angeles Parks and Recreation Department, Cedars Sinai Hospital, Garmin, and the Pasadena Art Center. The City of Los Angeles, who subleases the land on which DCLA is built, has also been a close partner since DCLA was established in 2014. DCLA will continue to work closely with the City as the project moves forward and will collaborate with the City to ensure that project benefits reach as many City residents as possible.
- 80001(b)(8)(D) – **Identifying and implementing improvements to existing programs to increase visitation and access by diverse populations, particularly minority and low-income communities.** This project will be an improvement to existing programming and will draw new visitors to a new recreational opportunity. Since its opening, DCLA has consistently served over 200,000 annual visitors, including more than 30,000 students on field trips annually, and supported nearly 70 Los Angeles teachers through professional development workshops. Once completed, the project has the potential to draw even more visitors to DCLA, extending its already robust impact in the surrounding community.
- 80001(b)(8)(E) – **Expanding the use of multilingual and culturally appropriate materials in public communications and educational strategies.** As part of the planning process, DCLA will make use of multilingual social media posts to conduct outreach, and educational signage that will be part of project implementation will be made available in multiple languages. This will include educational signs along the various hiking trails that are part of the project. The app being developed by project partners as a component of this project will also be multilingual.
- 80001(b)(8)(F) – **Developing or expanding coordinated efforts to promote youth engagement and empowerment:** This project will expand DCLA’s existing youth education efforts, which are centered around youth engagement and empowerment. The project will raise awareness surrounding best practices for safety on hikes, as well as awareness about fire conditions and safety when enjoying activities in natural resource areas. This will contribute to strengthening public health and environmental stewardship in the community, making sure that DCLA visitors gain applicable knowledge during their visits that empowers them to safely and responsibly engage with state parks, national parks, or other nature preserve areas that they may visit.

***Description of how the project helps meet the State’s greenhouse gas emissions reductions targets, including a quantification of the metric tons of CO2 or CO2e removed or avoided, and an explanation of the methodology used to quantify this figure***

This project will help to meet State greenhouse gas emissions reductions targets through education on carbon sequestration and the importance of protecting and planting trees to sequester carbon. The trails that will be constructed as part of this project are underneath a beautiful grove of mature trees on the project grounds. These trees will be protected throughout the construction process, and the project will include education on the science of carbon sequestration, including explanations of how trees reduce carbon and help to clean the air. The project will include a call to action for visitors to plant and protect trees in their communities and throughout their life.

***Description of how the project promotes and implements other relevant regional and state plans and policies***

As part of its Memorandum of Understanding (MOU) with the City of Los Angeles Department of Recreation and Parks, DCLA has an agreement in place to operate the museum and provide public programming, and to develop the forested land adjacent to the DCLA facility. This project is consistent with this MOU and will and move forward the development plans established between DCLA and the City of Los Angeles.

Additionally, this project will further multiple goals of the California @50 Million: The Environmental Goals and Policy Report, including stewarding and protecting natural and working landscapes, incorporating climate change adaption into all planning and investment, and leading by example to make the state a model for long-term sustainability

***Indicate whether the project will have matching funds from private, local, or federal sources and if so, to what extent***

This project has secured \$560,000 in private and public funds, including:

- \$125,000 from the Coto Foundation for general construction costs
- \$235,000 from the City of Los Angeles for direct project management and labor
- \$200,000 from the Lopez Canyon Fund for community access projects once construction of the project is complete. Community access efforts will include school field trips to the completed Discovery Challenge Trails project.

Additionally, DCLA is in the process of securing \$3,826,800 in New Market Tax Credits (NMTC) for construction hard costs. DCLA has been successful in securing this type of funding in the past, including 4 years ago during the original campaign to secure the funding necessary to establish DCLA.

***Indicate whether the project will benefit a disadvantaged community***

This project is located in and will provide multiple benefits to a disadvantaged community, including expanded recreation opportunities, environmental education, and workforce development opportunities. Additionally, a \$200,000 contribution from the Lopez Canyon Fund for community outreach will support field trip scholarships for students in nearby disadvantaged communities to visit the project upon completion, which will ensure that the project has a strong and positive localized impact.

DCLA is located in the San Fernando Valley, home to an estimated 1.8 million people where one third of households here are reported to be living at or below the poverty level and 10 percent of households reporting incomes of \$15,000 per year or less. Pacoima, the neighborhood closest to DCLA, has majority-minority with 86% of the population identifying as Latino and 7.2% as African American, both of which are populations that have historically faced structural barriers to quality educational and recreational opportunities. Per the California State Parks Community Fact Finder Tool, the median household income in the surrounding community is \$49,572 and nearly 25% of residents living within a ½-mile of the site live in poverty. Within a 5-mile radius, more than 50 areas are designated as either disadvantaged or severely disadvantaged by this same mapping tool.

There has historically been a statewide underinvestment in parks, trails, outdoor infrastructure, and recreational areas in disadvantaged regions such as the San Fernando Valley. This project would address that underinvestment and serve the community by creating additional learning and recreational opportunities for a needy population. Finally, given that underserved communities are often the first and most severely impacted by destructive climate-related events such as wildfires, creating an accessibly opportunity to learn about such issues will be particularly beneficial for the local community.

Additionally, this project will create workforce education opportunities for the local community. Currently, 80% of jobs and volunteer positions at DCLA are filled by members of the surrounding community, which is designated as a disadvantaged community per the California State Parks Community Fact Finder Tool. The addition of a new installation will create a need for new caretakers to oversee the installation area once completed, which will present new job opportunities for members of this community. Additionally, the expansion will create a need for additional volunteers, who receive training and develop transferable job skills over the course of their volunteer experience. This is especially the case for high school student volunteers from the surrounding community, who gain professional experience that will be valuable to them in future internship or other professional experiences as they move forward with their careers.

DCLA currently engages 62 active core volunteers, including 41 teen volunteers. As DCLA continues to grow, it is committed to offering new job opportunities for members of the surrounding community. In particular, DCLA will seek to hire more education staff with Spanish-speaking skills in order to better serve visitors from the surrounding area, where a majority of households identify as Latino. Increasing representation of Latino community members is important to ensuring that visitors find employees who look like themselves, understand cultural nuances, and are able to help create an effective learning environment.

***Indicate whether the project will use the services of local or state Conservation Corps***

This planning project is exempt from the Proposition 68 Consultation Corps consultation process because it will not involve field work; all planning, design, and engineering work will be completed by DCLA’s selected consultant once selection is finalized. DCLA has reached out to the California Conservation Corps to confirm that Corps consultation is not required for this planning project and will consult with the Corps once this project reaches its implementation phase.

DCLA expects that use of the services of the Conservation Corps will be feasible when the project reached its implementation phase. DCLA previously consulted with the Corps for this same project through the Proposition 68 consultation process, in preparation for an application to the Natural Resources Agency Cultural Community and Natural Resources program. At that time, the Corps determined that the CCC Pomona Center and Los Angeles Satellite Center corpsmembers can assist with all implementation aspects of this project except for the installation of solar panels. When the project reaches the implementation phase, pending future funding, DCLA will continue to be in contact with the Pomona Center and Los Angeles Satellite Center to identify how this project can best use the services of the Corps. Correspondence with the Conservation Corps is included with this application.

***Description of any new or innovative technology or practices that will be applied to the project***

The Discovery Challenge Trails are envisioned to have an interactive visitor engagement system called Nature Quest as an important overlay to the trail features. Nature Quest will tie all the interactive learning areas together through an electronic educational scavenger hunt sensor overlay. Nature Quest will help track visitor activity on the trails and will also be a tool to connect visitors with surrounding recreational opportunities in nature.

Additionally, this project will apply several innovative technology practices, including incorporation of an educational Los Angeles-specific app that is being developed in partnership with the City of Los Angeles Parks and Recreation Department, Cedars Sinai Hospital, Garmin, and the Pasadena Art Center. The app will be designed to encourage residents to take hikes in parks all across Los Angeles, rewarding them for steps taken, and educating them about the science of nature. A key feature of the app will be to track users’ steps and provide rewards when users reach fitness goals. Project partners will provide rewards, such as free or discounted admission to local recreational opportunities. Development of the app is not included in the planning budget or the construction budget for this project because app development will be funded through Cedars Sinai Hospital, but it will be an important component of project implementation.

***Method for monitoring and reporting on the progress and effectiveness of the project during and after project implementation***

For this planning project, DCLA staff will be responsible for monitoring project progress as the project is prepared for implementation. DCLA staff will work closely with the selected designing and engineering consultants to set milestones, track and evaluate progress, and ensure preparation for implementation at the soonest available opportunity for funding.

## DISCOVERY CUBE LOS ANGELES – DISCOVERY CHALLENGE TRAILS

After project implementation, DCLA will monitor project effectiveness and impact by tracking visitor attendance, and DCLA will periodically solicit visitor feedback for programming and features offered at the Discovery Challenge Trails.

Additionally, both Nature Quest and the app being developed by project partners will help measure project effectiveness. Both of these tools will monitor visitor activity on the trails and will have built-in reporting systems to measure how visitors engage with the project trails.

### ***Description of how project is consistent with the Common Ground Plan***

This project is consistent with multiple guiding principles outlined in the Common Ground Plan, including:

- **Improve access to open space and recreation for all communities**, as the planned project will include several new hiking trails at different skill levels, a ranger station, map rooms, bike trails, animal encounters, and an interactive scavenger hunt to encourage hikers to explore and learn all the lessons the Challenge Trails have to offer. A key goal of the project is to educate and connect visitors with open space and recreation opportunities throughout Los Angeles, and all project components are designed to get people excited about engaging with these opportunities.
- **Connect open space with a network of trails**, as the planned trail components of the project will encourage visitors to connect with nearby trails outside of DCLA, such as those that are accessible in the adjacent Hansen Dam Recreation Area. Additionally, the app that will be developed as part of this project will educate and connect people with surrounding trails.
- **Promote stewardship of the landscape**, as the project will include numerous environmental education components, such as signage and interactive learning features, that will create educational opportunities for visitors from across the region. These educational components will help visitors learn about the surrounding wildlife corridors and about the natural environment, fostering environmental stewardship of land, water and air resources. All DCLA exhibits and programming revolve around four core initiatives, including “environmental stewardship,” which aims to encourage positive behaviors to foster environmental stewardship of land, water and air resources and to develop innovative solutions to 21st century challenges.
- **Optimize water resources to reduce dependence on imported water**, as project landscaping will include drought-tolerant and climate-appropriate plants that will reduce the need to use scarce water resources for irrigation. Additionally, the project will include a relocated and redesigned water retention pond. The facility currently has a water retention pond, but design drawbacks have led to frequent water spillage from the existing pond. Redesigning and relocating the pond so that it better captures rainwater will enhance the drought tolerance of the new installation and will contribute to the preservation of scarce water resources in the region. Project educational components will also include education about drought-tolerant and California native plants to educate visitors about the importance of climate appropriate landscaping for protecting water resources.

***Description of how the scope of work will further the Conservancy’s strategic objectives***

This project will further several of the Conservancy’s strategic objectives, including:

- **Expand Efforts to Integrate Nature into the Urban Environment:** this project will create an outdoor recreation experience in a dense urban environment that is designed to excite visitors about nature and the surrounding environment. The project will include several new hiking trails at different skill levels, a ranger station, map rooms, fossil room, lookout towers, swinging bridges, climbing stations, bike trails, animal encounters, and an interactive scavenger hunt to encourage hikers to explore and learn about California’s natural environment.
- **Expand Education, Public Access, and Resource Stewardship Components in a Manner That Best Serves the Public:** This project will increase resource stewardship and educational/interpretive capabilities in through the inclusion of environmental education components. These educational components will help visitors learn about the surrounding wildlife corridors and about the natural environment, fostering environmental stewardship of land, water and air resources. All DCLA exhibits and programming revolve around four core initiatives, including “environmental stewardship,” which aims to encourage positive behaviors to foster environmental stewardship of land, water and air resources and to develop innovative solutions to 21st century challenges

***Description of how the scope of work will protect or enhance an urban creek***

This project will protect the Little Tujunga Creek and Tujunga Wash through the educational opportunities that the Discovery Challenge Trails will offer. Educational panels throughout the project will highlight nearby wildlife corridors such as the Big and Little Tujunga Creeks and thus will contribute to the protection of these corridors as visitors learn about them and how to sustainably interact with the natural environment.

## PRELIMINARY PROJECT PLANS

A conceptual artist rendering of the Discovery Challenge Trails and a site map illustrating the location of the Discovery Challenge Trails within the Discovery Cube Los Angeles grounds are attached as separate documents with this application.