

**CALL FOR PROJECTS FOR THE NINTH CYCLE OF THE  
TransNet ENVIRONMENTAL MITIGATION PROGRAM  
LAND MANAGEMENT GRANT PROGRAM  
THREAT REDUCTION STEWARDSHIP GRANT APPLICATION FORM**

Grant Application Form and required supplementary materials (hereafter referred to as “proposal”) cannot exceed eight pages.

Applicant Name<sup>1</sup>: Adam Taylor (Cabrillo National Monument)  
Address: 1800 Cabrillo Memorial Drive San Diego, CA 92106  
Phone and Email Address: 619-886-5151 [adam\\_taylor@nps.gov](mailto:adam_taylor@nps.gov)  
Name of Property: Cabrillo National Monument  
General Location: Point Loma  
Jurisdiction: National Park Service  
Total Acres: 168  
Estimated Acres Requiring Management: 4  
Owner(s) of Property<sup>2</sup>: National Park Service  
Land manager(s) of property (include name[s]): National Park Service  
Current Superintendent: Andrea Compton

**Brief Project Summary that includes your primary goal and objectives (200-word maximum)**

The primary goal is for the management of *Aphanisma blitoides*. Currently *A. blitoides* consists of habitat specific occurrences throughout the Point Loma peninsula. Many of these occurrences are on National Park Service (NPS) lands. Threats to this species include invasive plants (mainly *Mesembryanthemum nodiflorum* and *crystallinum*), illegal trail usage, and erosion. Our objective is to remove invasive plants, restore social trails with complimentary native plants, and to reduce off-trail use with signage, fencing, and education via social media platforms. These objectives will be completed using a workforce of staff, a dedicated volunteer force, and trained student interns.

**Quantify Expected Results (add bullets as necessary)**

- 4 acres weeded to < 20% invasive coverage
- All social trails revegetated with native plants grown in local greenhouse.
- Where applicable: fencing, rope, and signage will be placed to discourage off-trail usage
- Social media: 3 blog posts discussing the management of rare plants and their threats will be posted on the existing Field Notes blog at <https://www.nps.gov/cabr/blogs/cabrillofieldnotes.htm>. This has been an ongoing and useful tool for educating the public on natural resources in our park. We will use our popular Instagram account to promote blog posts.

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<sup>1</sup> While collaboration is encouraged in the development of the grant proposal, the proposal must identify one organization as the lead entity that will enter into an Agreement with SANDAG.

<sup>2</sup> If the applicant is not the landowner, please submit a letter or right-of-entry permit from the land owner granting permission to perform the land management duties as outlined in the proposal. Failure to provide the letter or right-of-entry permit will lead to disqualification of the proposal. **Attached letter or right-of-entry permit (if applicable) does not count toward eight-page maximum.**

**Brief Description of dedicated staff and/or consultants that would work on Project (200-word maximum)**

Several staff members are already in place for this project. Last year we began efforts to remove *Mesembryanthemum* specifically from *Aphanisma* habitat.

We have a dedicated greenhouse/restoration crew consisting of staff, interns, and volunteers. Our greenhouse crew has provided thousands of native plants grown from seed from Cabrillo National Monument (CNM) native stock over the past 4 years. The past 2 years we have planted 1500 plants throughout the park. Our greenhouse crew is involved in all parts of the growing and planting process from collecting seed, cleaning seed, applying necessary treatments for germination, and proper planting techniques.

We also have an invasive species crew consisting of staff, interns, and volunteers (Weed Warrior program). This workforce has been responsible for training and coordinating volunteers to identify and remove non-native species from the park for 4 years. Our team includes certified herbicide applicators if necessary.

**Funding Needs Summary**

Please indicate how much funding is being requested from SANDAG.

Budget Item	Requested Funding Amount	Description
Personnel Expenses Staff	\$20000	Includes staff time for non-administrative work on the project
Personnel Administrative Expenses	\$2000	Includes all staff time to administer the contract
Consultant Expenses	\$0	Includes all costs for consultant services
Other Direct Expenses	\$3000	Includes all equipment, supplies, mileage, etc.
Indirect Costs <sup>3</sup>	\$0	All indirect charges (e.g., overhead) on the project, if any.
<b>Totals</b>	<b>\$25000</b>	

\*if applicable

**PROJECT PROPOSAL**

**A. Project Purpose**

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<sup>3</sup> Indirect Costs are only allowable if: (1) applicant has an indirect cost allocation plan audit approved by a qualified independent auditor or (2) the applicant’s proposed method for allocating indirect costs is submitted with the proposal in accordance with [OMB guidelines](#) and approved by SANDAG. Indirect costs will not be reimbursed until one of the two conditions above are satisfied and indirect cost allocation plans must be renewed annually. **The indirect cost methodology included with the application does not count toward eight-page maximum**

The proposed project addresses *Aphanisma blitoides*, a high-priority Management Strategic Plan (MSP) species (SL) and associated habitat.

**1. The project addresses an urgent need and includes actions that will manage an identified threat.**

Direct competition from two non-native species of *Mesembryanthemum* (*M. nodiflorum* and *M. crystallinum*) is a primary concern for this rare plant. Seedlings of both *Aphanisma* and *Mesembryanthemum* emerge at roughly the same time each season. The seed bank for *Mesembryanthemum* is likely many times greater than that of *Aphanisma* and it grows at a rapid rate thus competing for resources (soil moisture and nutrients). The rapid growth of *Mesembryanthemum* can quickly shade out newly emerging *Aphanisma* as well. Early hand weeding has been used in previous years with much success at reducing weed cover. Herbicide is not recommended at this stage due to the similar emergence timing and difficulty seeing young *Aphanisma* at this stage.

Social trails are another immediate concern. The coastal bluffs at CNM are a favorite spot for visitors to take photos and take in the views of the ocean. This sometimes leads visitors off trail despite rope fences. Direct trampling of newly emerging seedlings can be greatly impacted by off-trail use. Signs informing visitors of sensitive habitat as well as heavy restoration will likely reduce this threat.

Erosion control is also necessary as many of these areas are composed of loosely compacted sandstone and are lacking natural vegetation cover due to off-trail usage. Again, restoration efforts can reduce off-trail use while also minimizing direct impact from rains.

**2. Success criteria have been identified and will be monitored and reported.**

Our mechanical weeding efforts will lead to the successful reduction of invasive species to <20% cover of *Aphanisma* habitat. We will take initial data of percent cover of target habitats and re-access after our efforts. Before and after photos will also be an effective tool for monitoring success rate.

Since this project will begin in the Fall of 2018, before winter rains, the first phase will likely involve restoration and a combination of signage/fencing efforts to limit social trail use. Eliminating social trails in the Fall will benefit seedling success in the winter.

Additionally, providing ground cover with the use of coastal native plants will reduce erosion during the following rainy season. We will use plants specifically associated with *A. blitoides* habitat (i.e., *Lycium californicum*, *Sueda taxifolia*, *Chorizanthe procumbens*, *Isocoma menziesii*, *Cistanthe maritima*).

**3. Success of the proposed project is likely with clear, measurable, proven results.**

Populations of *Aphanisma* were monitored in 2017 by NPS staff and Jessie Vinje, a biologist for The Conservation Biology Institute. Population locations and sizes, habitat conditions, and threats were all identified using the Management and Monitoring Strategic Plan's Inspect and Manage (IMG) protocols.

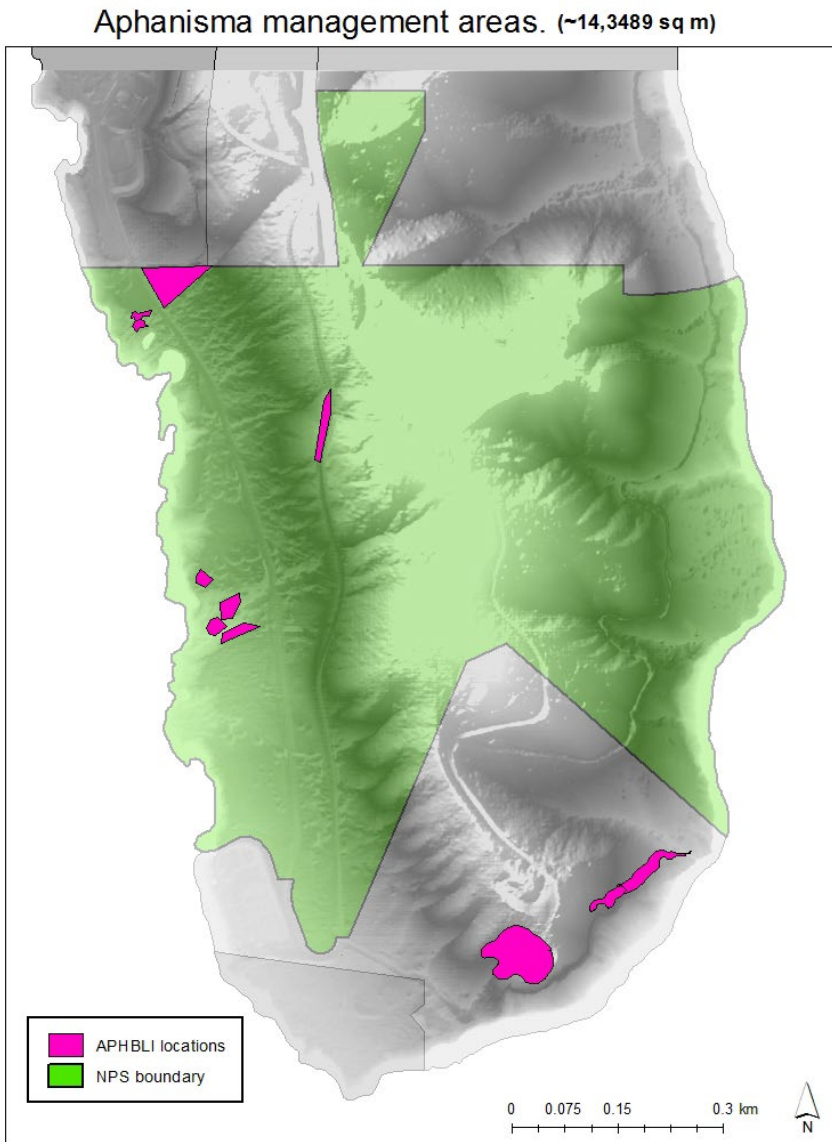
**4. Funding after grant.**

The continuation of our greenhouse/restoration and invasive species management programs is in our interest for this project as well as many other throughout the park. Current staff is aware of the issues and management needs for *Aphanisma* and are eager to keep up with this project for years to come. Funding for a botanist, greenhouse

interns, and weed management is continually sourced and secured via NPS base funds as well as through non-profit partners.

5. Where is the project located? (*Attach a map*)

Cabrillo National Monument is located at the southern portion of the Point Loma peninsula. It is managed by the National Park Service and is included in the MSP area.



B. Scope of Work by Task

Please break down the proposal into discrete tasks and include a task name, description of each task, quantifiable expected results, and discrete deliverables for each task. *Note: make sure to list tasks for quarterly reporting on the status of the grant project and a final report on the outcome of the grant project. You may add or subtract rows as needed.*

**Exhibit A – Proposed Project Scope of Work**

Task No.	Task Name	Task Description	Quantifiable Results/Deliverables
1	Sign/fencing	Providing educational signs and clear fencing to reduce off-trail use.	Reduction of social trails.
2	Restoration preparation	Greenhouse work, seed collecting, propagating, watering, weeding, supplies, etc.	Inventory of planted native species and area covered.
3	Invasive removal	Mechanical removal of Mesembryanthemum and other invasive weed species.	Comparison of initial and final percent cover of invasive species. Photos of areas implemented.
4	Restoration	Native plant restoration in Aphanisma habitat and on social trail areas.	Inventory of planted native species and area covered.
5	Training	Training volunteers and student interns for project tasks.	Number and hours of trained volunteers and student interns used in project completion.
6	Supplies/ Equipment	Purchase of needed materials.	Receipts for all items provided.
7	Administrative	Preparation of quarterly and final reports	Reports submitted on time.

**C. Budget by Task**

**Exhibit B – Proposed Project Budget**

Task No.	Task Name	Grant Request
1	Sign/fencing	\$1000
2	Restoration prep.	\$7000
3	Invasive removal	\$5000
4	Restoration	\$5000
5	Training	\$2000

6	Supplies/Equipment	\$3000
7	Administrative	\$2000
<b>Subtotal</b>		\$25000
<b>Indirect Cost ( __ %)</b>		\$
<b>TOTAL</b>		\$25000

**D. Project Schedule**

Please include start and end dates relative to the anticipated Notice to Proceed (NTP) (Fall 2018) for each task described in the Scope of Work (Section B above). Please list tasks for quarterly reporting on the status of the grant project and a final report on the outcome of the grant project. You may add or subtract rows as needed. *All tasks must be completed within 18 months of the NTP.*

**Exhibit C – Proposed Project Schedule**  
(Assumes Fall 2018 Notice to Proceed [NTP])

Task No.	Task Name	Proposed Start Date	Months Needed to Complete Task	Task End Date
1	Sign/fencing	0 Months from NTP	1 Months	10/30/2018
2	Restoration prep.	0 Months from NTP	18 Months	03/28/2020
3	Invasive removal	3 Months from NTP	18 Months	03/28/2020
4	Restoration	4 Months from NTP	3 Months	03/28/2019
5	Training	0 Months from NTP	18 Months	03/28/2020
6	Supplies	0 Months from NTP	18 Months	03/28/2020
7	Administrative	0 Months from NTP	18 Months	03/28/2020

Please explain why and how much additional time would be needed in the event of any delays due to NTP being provided beyond Fall 2018 and/or unexpected weather conditions such as drought that could occur during the proposed project implementation.

The proposed project schedule provides adequate time to accomplish all tasks. In the likely event of drought we are prepared to provide additional water to restoration projects. Invasive removal should not be delayed by any reasonable issues. If NTP is provided beyond Fall of 2018 all tasks can be adjusted to fit with new schedule.

**NOTICE REGARDING PREVAILING WAGES**

SANDAG’s Environmental Mitigation Program (EMP) Land Management Grant Program projects are funded with *TransNet* revenues consistent with the *TransNet* Extension Ordinance adopted by the voters in November 2004 (SANDAG Ordinance 04-01). Although SANDAG Ordinance 04-01 does not require payment of prevailing wages, California law may require that public works projects pay prevailing wages for workers.

Applicant acknowledges that SANDAG has strongly encouraged Applicant to seek legal counsel regarding whether the Proposed Project will require applicant to pay prevailing wages and agrees that SANDAG will have no liability for conducting this analysis.  Yes  No

Applicant acknowledges that if awarded an EMP Land Management Grant, the grant agreement between SANDAG and the grantee requires grantee's compliance with all federal, state, and local laws and ordinances applicable to the Agreement.  Yes  No

**REQUIRED STATEMENTS FROM APPLICANT**

- Yes  No The applicant has read and understands the Sample Grant Agreement (Agreement) and Invoice Template (Attachment 4).
- Yes  No If the SANDAG Board of Directors approves the proposed project proposal, the proposed applicant agrees to sign and return the Agreement to SANDAG, without exceptions or amendments, within 45 days of receipt.
- Yes  No The applicant agrees to comply with SANDAG’s Board Policy No. 035, Competitive Grant Program Procedures, which outlines “Use-it-or-lose-it” project milestone and completion deadlines. Board Policy No. 035 is included in the Agreement, and also is on SANDAG’s website at the following link: [sandag.org/organization/about/pubs/policy\\_035.pdf](http://sandag.org/organization/about/pubs/policy_035.pdf)
- Yes  No The applicant understands that 10 percent of all invoices will be retained until the completion of the proposed project.
- Yes  No The applicant understands that all invoices must be accompanied by written, documented support of the charges for requested reimbursement of grant funds and payment will not be made by SANDAG until all documents are satisfactorily submitted.
- Yes  No The applicant understands that invoices and reports must be submitted on a quarterly basis within three weeks after the period covering January 1 to March 31; within three weeks after the period covering April 1 to June 30; within three weeks after the period covering July 1 to September 30; and within three weeks after the period covering October 1 to December 31.
- Yes  No The applicant understands that the EMP quarterly report template (to be sent to the grantee after NTP is issued) must be used to document quarterly progress and that invoices with errors will be returned to the grantee for correction prior to being processed by SANDAG staff.
- Yes  No The applicant understands that the final invoice must be accompanied by written, documented support of the charges for requested reimbursement of grant funds; a final report (prepared in accordance with the final report template to be sent to grantee after NTP is issued); and all outstanding deliverables in order to receive final payment and have retained funds released.
- Yes  No The applicant understands that to be considered eligible for funding, a resolution complying with the requirements of Board Policy No. 035, Section 4.1, must be submitted to SANDAG at least *two weeks* prior to the recommendation by the Regional Planning Committee of the list of prioritized project proposals. SANDAG will provide applicants with advance notice of the Regional Planning Committee’s anticipated meeting date.
- Yes  No The applicant agrees to submit all project data/information to SANDAG in a format compatible with the regional management database.

**I have the authorization to submit this proposal (Grant Application Form and required supplementary materials) on behalf of my organization.**

\_\_\_\_\_  
 Adam Taylor/Biological Science Technician  
**Applicant Name/Title** (print or type)

\_\_\_\_\_  
 Applicant Signature 01/11/2018  
**Date**