



California Department of Forestry and Fire Protection
Urban Forestry Program

ENVIRONMENTAL CHECKLIST

Part 1: ADMINISTRATIVE INFORMATION

1. Project Title: San Diego County Urban Forestry and Arbor culture Project
2. Project Applicant's Name: Urban Corps of San Diego County
3. Name and title of checklist preparer: Lauren Welch, Grant Writer

This checklist is intended for use by applicants for California Department of Forestry and Fire Protection (CAL FIRE) Urban Forestry Program projects. It is modeled after the California Environmental Quality Act (CEQA) Environmental Checklist, which has been modified to more closely focus on the types of actions and impacts expected to occur while conducting urban forestry tree planting projects. As the lead agency under CEQA, CAL FIRE must make a determination as to a project's potential environmental impacts, develop mitigations if necessary and determine the level of environmental documentation and review required. The completion of this checklist will assist CAL FIRE in identifying impacts of the proposed project prior to approval. To meet that need someone that is intimately familiar with the project and knowledgeable on potential environmental consequences must complete this checklist. The information in the checklist is meant to supplement the information provided in your application. Maps and photos supplied with your application will assist in CAL FIRE's review. This checklist is available electronically (MS Word 97) or may be completed by hand. If you need assistance please contact CAL FIRE's Urban Forestry Program personnel.

It is the intent of CAL FIRE and the Urban Forestry Program to approve tree-planting projects that are categorically exempt from further environmental review under CEQA. In order for a project to qualify for a categorical exemption CAL FIRE must find that there are no "unusual circumstances" associated with the project that lead to the project having impacts on environmental resources (e.g., threatened or endangered species, aesthetics, cultural resources, water quality, etc). CEQA does not allow for a project's impacts to be minimized or compensated under a categorical exemption; avoiding impacts to resources is the only mitigation permitted. To meet that end, the following questions were designed to identify environmental impacts that may occur in various tree-planting settings and encourage project applicants to develop measures to avoid those impacts. In the event that potential impacts to a resource are identified it is recommended that the project applicant redesign or reconfigure their project proposal to avoid impacts to the resource. Failure to fully avoid impacts will result in your project requiring a "higher level" of environmental review such as the preparation of a negative declaration or environmental impact report. This could be costly and delay your project. Because of the time and cost associated with the preparation of a negative declaration or environmental impact report CAL FIRE encourages you to change your project in order to qualify for a categorical exemption.

A brief explanation is required for "Yes" responses to the following questions. Responses must be supported by facts, not merely the personal opinion of the checklist preparer.

All responses must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

Earlier analyses may be used where an impact has been adequately analyzed in an earlier EIR or negative declaration. In this case, a brief discussion should identify the earlier analysis, describe the mitigations that were developed and supply copies of relevant sections/pages. A source list should be attached and other sources used or individuals contacted should be cited in the discussion sections where necessary.

Part 2: PROJECT DESCRIPTION

1. Project Location:
(City, County, Nearest Town, etc.) San Diego County
2. Description of Project: Describe the entire project, including but not limited to size and numbers of trees, size and depth of excavations, planting site preparation (i.e., land clearing), equipment to be utilized in planting and preparing the planting site (e.g., backhoes, power augers, heavy equipment), later phases of the project, and any secondary, support, or off-site features necessary for the project's implementation. Emphasis should be placed on activities that will potentially impact the environment rather than describing project benefits.

2000 trees will be planted in the following cities: San Diego, Imperial Beach, Vista, Encinitas, La Mesa and in Rancho Santa Fe. These 2000 trees will be planted in public right of way, streets, parks, schoolyards and riparian locations. 75% of the trees will be 15 gallon and the remainder are 5 gallon. We will utilize hand tools, augers and bobcats for the planting of the trees. There may be some trees that will require concrete cutting and irrigation.

3. Identify the type(s) of setting(s) where your project will be located.

Urban or Developed Settings

- ☒ Street (parkways, medians, sidewalks, etc.)
- ☒ Existing landscaped city/county park
- ☐ Existing landscaped school grounds
- ☒ Urban trail, bike trail
- ☐ Public building grounds
- ☐ Other similar urban or developed setting.
Describe setting: _____

Rural, Undeveloped or Wildland Settings

- ☒ Undeveloped land
- ☐ New or rural park
- ☐ New school grounds
- ☐ Agricultural land
- ☐ Historic district, railroad right-of-way
- ☒ Riparian area (within 100 ft of a stream, lake or wetland)
- ☐ Other similar rural, undeveloped or wildland setting. Describe setting: _____

Projects confined to urban or developed settings must address questions in Checklist, Part 4.

Projects that include rural, undeveloped or wildland settings must address questions in Checklist, Parts 3 and 4.

Part 3: ENVIRONMENTAL IMPACT ANALYSIS FOR PROJECTS IN RURAL, UNDEVELOPED OR WILDLAND SETTINGS

Projects, or portions of projects, planned for rural, undeveloped or wildland settings may have impacts on various resources (e.g., threatened or endangered species, cultural resources, water quality, etc.). Therefore, project applicants must conduct the following resource studies to determine if resources exist that warrant protection.

Resource Studies:

Conduct a Natural Diversity Data Base Search

Contact CAL FIRE, Urban Forestry Program staff to determine how to conduct a Natural Diversity Data Base (NDDDB) Search. Submit a copy of the search results along with this Environmental Checklist. If the NDDDB search identifies any threatened or endangered species of animals or plants that may be present describe avoidance measures in the appropriate discussion section.

Conduct an archaeological records check

Contact CAL FIRE, Urban Forestry Program staff to determine how to conduct an Archaeological Records Check. Submit a copy of the results along with this Environmental Checklist. If the Records Check identifies cultural resources within the project site describe measures to avoid impacts in the appropriate discussion section.

Conduct an archaeological survey

Contact CAL FIRE, Urban Forestry Program staff to determine how to conduct an archaeology survey. Submit a copy of the survey results along with this Environmental Checklist. If the archeological survey identifies cultural resources within the project site describe measures to avoid impacts in the appropriate discussion section.

Based on the results of the resource studies please respond to the following questions for projects located in rural, undeveloped or wildland settings.

1. Discuss the results of the resource studies and briefly describe the archaeological and biological resources identified within your project site.

A review of cultural resources has been initiated for the project area by the Natural Resource Conservation Service (NRCS) in accordance with the requirements of NRCS' Environmental Quality Incentive Program (EQIP). Currently this study is under review by the State Office of Historic Preservation (SHPO). Once this review is complete the results will be made available to CalFire.

In addition, biological resources within the project area were studied prior to project initiation in 2015 by the United States Fish and Wildlife Service (USFWS) as part of the USFWS' Partners For Wildlife grant review process to the level of NEPA compliance. No significant adverse environmental effects were identified during this review (see attached NEPA NOA).

The project area burned in the 2007 Witch Creek Fire and is in a state of recovery and regeneration. Biological resources within the project site are comprised of riparian forests, woodlands, and scrub habitats that are disturbed / degraded by infestations of invasive non-native species (e.g. Arundo donax, eucalyptus spp., Tamarisk ramossissima, and Acacia spp.) that proliferated following the 2007 wildfire. Ongoing efforts to eradicate these invasive species have greatly enhanced habitat quality, and revegetation efforts will complete the restoration of these habitats.

Will the project:

2. Require the removal of native vegetation (trees, shrubs) prior to planting, thereby potentially impacting threatened or endangered plant or animal species or cultural resources?

☐ Yes

☒ No

3. Require extensive soil disturbance, thereby potentially causing soil erosion and impacting, threatened or endangered species or cultural resources?

☐ Yes

☒ No

4. Require the use of large equipment (i.e. backhoe) thereby potentially impacting threatened or endangered species or cultural resources?
☐ Yes ☒ No
5. Occur within 100 feet of a perennial watercourse, riparian zone or wetland thereby potentially impacting threatened or endangered species, cultural resources or riparian values?
☐ Yes ☒ No
6. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use?
☐ Yes ☒ No
7. Discuss any "Yes" responses and describe measures to avoid impacts.
The Rancho Santa Fe project is within 100 feet of a perennial watercourse, but planting 54 gallon trees will not impact threatened species. It will enhance the habitat for the area.

Part 4: ENVIRONMENTAL IMPACT ANALYSIS FOR ALL PROJECTS

Please answer the following questions for all projects and discuss all "Yes" responses.

Will the proposed project:

1. Require approval from other public agencies (e.g., permits, financing approval, or participation agreement (e.g., grading permits, CALTRANS encroachment permits, right-of-way easements, etc.))
☐ Yes ☒ No
2. Include activities that were identified in other environmental documents or analyses and support findings of no significant impact (e.g., CEQA documents, environmental surveys, general plans, studies, reports, etc.)
☒ Yes ☐ No

For the Rancho Santa Fe plantings: The project activities are covered under programmatic CEQA as part of the San Dieguito River Park Joint Powers Authority's San Dieguito Watershed Invasive Non-native Plant Control Program Mitigated Negative Declaration (May 2009). The findings of

the MND confirm that the impacts of the project activities are less than significant with the implementation of the required mitigation measures.

In addition, the project activities (including revegetation activities) were studied prior to project initiation in 2015 by the United States Fish and Wildlife Service (USFWS) as part of the USFWS' Partners For Wildlife grant review process to the level of NEPA compliance. No significant adverse environmental effects were identified during this review (see attached NEPA NOA).

3. Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to general plans, specific plans, local coastal programs, or zoning ordinances)?

☐ Yes

☒ No

4. Conflict with any ordinances protecting biological resources, such as tree preservation ordinance, Habitat Conservation Plan, or other policy?

☐ Yes

☒ No

5. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

☐ Yes

☒ No

6. Result in trees, once mature, coming into contact with power lines?

☐ Yes

☒ No

7. Expose people or structures to the risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

☐ Yes

☒ No

8. Have sufficient water supplies available to serve the project from existing entitlements and resources or substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local

groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

☒ Yes ☐ No

For Rancho Santa Fe the project area is located within the riparian zone of the San Dieguito River where the water table and natural sources like rainfall coupled with the elimination of competition from non-native plant species would be expected to support establishment and continued survival of plantings.

9. Result in substantial adverse impacts to public services for tree pruning and maintenance?

☐ Yes ☒ No

10. Substantially increase the use of existing neighborhood and regional parks or other recreational facilities or require the construction of additional recreational facilities resulting in significant environmental impacts?

☐ Yes ☒ No

11. Include trees known to produce pollen/allergens/odors that are irritants or objectionable to large numbers of people?

☐ Yes ☒ No

12. Substantially damage a scenic resource or vista or degrade the existing visual character or quality of the site and its surroundings including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

☐ Yes ☒ No

13. Result in, once trees are mature, undesirable shading of nearby property, including residences, offices, swimming pools, solar energy collectors, recreational facilities, etc. or subject adjoining properties to excessive amounts of litter and/or debris?

☐ Yes ☒ No

14. Obscure public safety improvements such as streetlights, traffic signals, signs, etc.?

☐ Yes

☒ No

15. Greenhouse Gas Emissions

☒ This topic does not apply to this project and was not evaluated further.

☐ Yes ☐ No Would the project generate significant greenhouse gas (GHG) emissions?

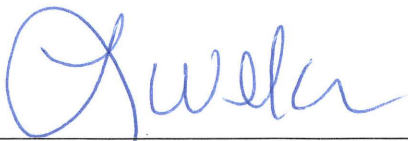
☐ Yes ☐ No Would these GHG emissions result in a significant impact on the environment?
Discuss below:

☐ Yes ☐ No Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?
Discuss below:

If you checked "No" to all preceding questions or checked "Yes" and have provided the required Resource Studies and identified measures sufficient to protect all resource values the project may be categorically exempt from further environmental review. Sign the Certification, below, and submit this Checklist with your application to the CAL FIRE, Urban Forestry Program office. CAL FIRE will review your responses and determine whether additional environmental review is necessary prior to project approval.

Part 5: CERTIFICATION

I certify that I have reviewed the proposed project's description and inspected the project site(s). I have provided accurate and factual responses to the questions and have supplied accurate information when requesting database searches. In my opinion the proposed project will not have any negative impacts on the environment.



Signature of Checklist Preparer



Date

Cummings Environmental, Inc.

17 October 2019

Ms. Lauren Welch
Development Manager
Urban Corps of San Diego County
3127 Jefferson Street
San Diego, CA 92110

Via Email: lwelch@urbancorps.org

Reference: CAL FIRE Grant – Tree Planting in Rancho Santa Fe at the Arroyo Preserve
(Cummings Environmental Job #1849.35C)

Dear Ms. Welch:

Per your request, I have conducted a review of the proposed tree planting project at the Arroyo Preserve in Rancho Santa Fe managed by the Rancho Santa Fe Association. The purpose of this review was to determine if there would be any potential biological impacts under the California Environmental Quality Act (CEQA) as a result of this grant project. After a site visit on 10 October 2019, and based upon a search of the California Natural Diversity Database (CNDDB) and the California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants, as well as, conversations with the Rancho Santa Fe Association's Parks and Recreation Department staff, I believe the project to be categorically exempt under CEQA.

Methodology. The first part of this review required an understanding of the project, including the number and types of trees to be planted and where these trees would be planted. The second part included a review of the existing sensitive species databases (CNDDB and CNPS) to generate lists of wildlife and plant species with the potential to be found within ¼-mile of the project area. The third and final part of the review consisted of a site visit to the project area to inspect the seven planting areas for sensitive species and/or habitats.

Results and Analysis. Four species of native trees totaling 450 individuals will be planted within the seven planting areas shown in the attached Figure 1. The four, native tree species are Coast Live Oak (*Quercus agrifolia*), Engelmann Oak (*Quercus engelmannii*), Western Sycamore (*Platanus racemosa*), and Fremont Cottonwood (*Populus fremontii*). Fremont Cottonwood and Western Sycamore trees already occur along the San Dieguito River in the existing riparian habitat near the planting locations. Coast Live Oaks are also found near the planting locations on the edges of the existing riparian habitat. Engelmann Oaks are known to be within the area as well. As such, this selection of tree species will blend in naturally with the existing native habitats in and near the planting areas.

On 10 October 2019, the seven planting areas were walked to inspect the existing conditions and determine if any sensitive species or habitats would be impacted by the tree planting activities.

Ms. Lauren Welch
17 October 2019
Page Two of Three

The two planting areas in the middle of the project area on the north and south sides of the river contained disturbed habitat occupied by bare dirt, wood chippings and sparse non-native grasses and forbs (see top photo in the attached Figure 2). The two planting areas furthest downstream to the west contained disturbed Southern Riparian Scrub along the northern edge adjacent to the river, Eucalyptus trees to be removed, and Diegan Coastal Sage Scrub components along the southern edge (see bottom photo in the attached Figure 2). The three planting areas around the pond contained disturbed Southern Riparian Scrub, Eucalyptus trees, and Freshwater Marsh habitat (see top photo in the attached Figure 3). The Southern Riparian Scrub, Diegan Coastal Sage Scrub, and Freshwater Marsh habitats are all sensitive habitats that will be avoided. Tree plantings will occur in open areas without damaging or removing any of the adjacent sensitive habitats.

Six sensitive plant species and three sensitive animal species have CNDDDB records within ¼-mile of the planting areas. The six sensitive plant species are California Adolphia (*Adolphia californica*), Del Mar Manzanita (*Arctostaphylos glandulosa* ssp. *crassifolia*), Orcutt's Brodiaea (*Brodiaea orcuttii*), San Diego Barrel Cactus (*Ferocactus viridescens*), San Diego Marsh-Elder (*Iva hayesiana*), and Nuttall's Scrub Oak (*Quercus dumosa*). The three sensitive animal species are California Glossy Snake (*Arizona elegans occidentalis*), Coastal California Gnatcatcher (*Polioptila californica californica*), and Western Spadefoot (*Spea hammondi*). During the site visit, an effort was made to locate these nine species. One of the nine species with a CNDDDB record within ¼-mile was found, as was an additional sensitive plant species. The two sensitive plant species that were found are the Southwestern Spiny Rush (*Juncus acutus* ssp. *leopoldii*), and San Diego Marsh-Elder. Both species were noted within and adjacent to all seven tree planting areas (see bottom photo in the attached Figure 3). Based upon discussions with the Rancho Santa Fe Association's Parks and Recreation Department staff, they will be flagging all sensitive plant species to avoid impacts, such as direct removal or trampling, during the tree planting activities.

Although no sensitive animals were noted during the October field survey, it is anticipated that several bird species protected under the Migratory Bird Treaty Act (MBTA) will nest in and adjacent to the seven planting areas. As mentioned above, there will be no direct impacts to native vegetation as a result of the tree planting. Indirect noise effects to nesting birds are not anticipated as the planting efforts are anticipated to occur between November 2019 and January 2020.

Conclusion. The Guidelines for the Implementation of CEQA are found in Title 14, Division 6, Chapter 3 of the California Code of Regulations (CCR). Article 19 found at 14 CCR Sections 15300-15333 identifies and describes the Categorical Exemptions under CEQA. This project proposes to plant 450 native trees in the disturbed portions of seven areas totaling 3.46-acres.

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Page Three of Three

These seven areas are within existing dedicated open space adjacent to the San Dieguito River and are mapped as "Public Lands and Dedicated Private Open Space" within the Lake Hodges Segment of the San Diego County MSCP Subarea Plan. Since 1) there are no adverse impacts to endangered, rare or threatened species or their habitats as a result of the project, 2) there are no hazardous materials at or around the project area that will be disturbed or moved, and 3) the project will not result in significant cumulative impacts, the project qualifies as a Class 33 Categorical Exemption for Small Habitat Restoration Projects.

If I can answer any questions or provide additional information, please do not hesitate to contact me.

Sincerely,



Gretchen Cummings
Owner/Consulting Biologist

Attachments:

Figure 1 – RSF Tree Planting Project Shown on an Aerial Photo

Figure 2 – Site Photos

Figure 3 – Site Photos

The original of this graphic was produced in color. Additional color copies may be obtained from the author.



Cummings Environmental Job Number 1849.35C 3 October 2019

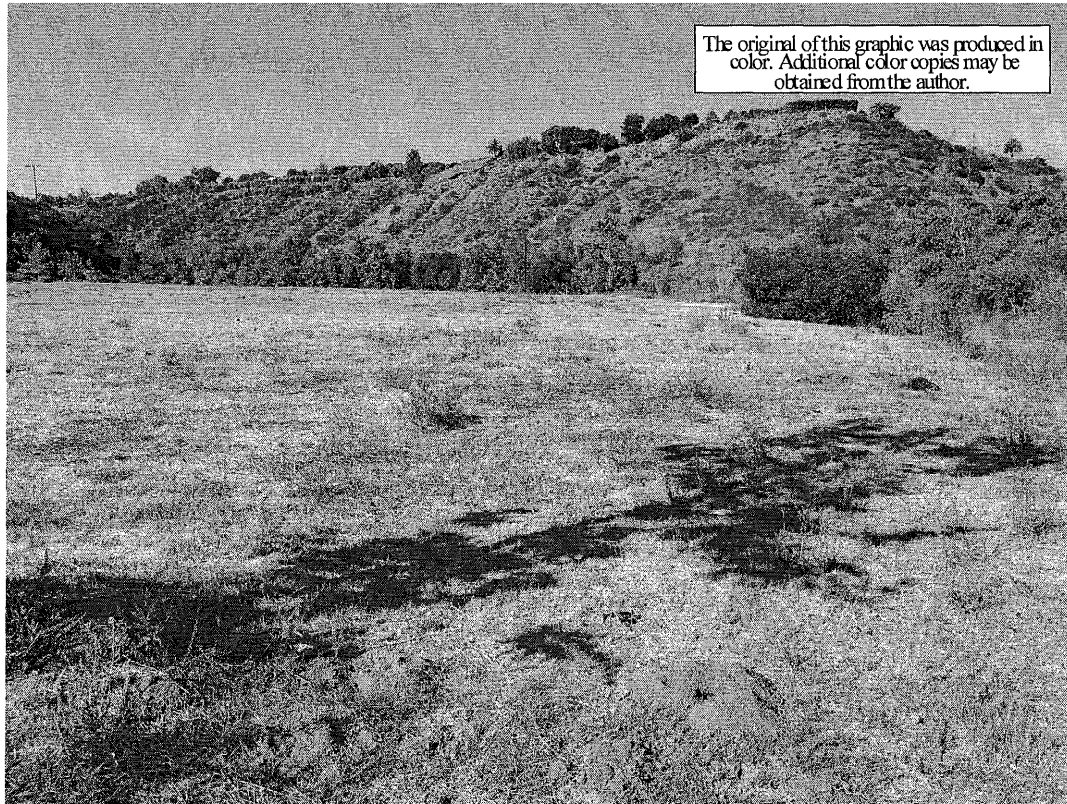
Scale: 1-inch = 300-feet

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**Cummings
Environmental**

RSF Tree Planting Project Shown on an Aerial Photo
[Base Photo © 2018 Google; Imagery Date 8/13/2018]

**Figure
1**



Cummings Environmental Job Number 1849.35C 15 October 2019

[:\1849-Fig-2.pptx]

**Cummings
Environmental**

Site Photos: Top Photo of Disturbed Planting Area in the Middle of the Project on the South Side of the River; Bottom Photo of Disturbed Planting Area West of the Campground on the South Side of the River

**Figure
2**



Cummings Environmental Job Number 1849.35C 15 October 2019

[:\1849-Fig-3.pptx]

**Cummings
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Site Photos: Top Photo of Planting Areas Around the
Pond; Bottom Photo of Southwestern Spiny Rush and
San Diego Marsh-Elder

**Figure
3**

Melvin, John@CALFIRE

From: Short, Lynnette@CALFIRE
Sent: Wednesday, January 8, 2020 8:48 AM
To: Melvin, John@CALFIRE
Subject: Fw: NOE San Diego Urban Forestry project

Hi John,

here is what I got back from Larrynn on the Urban Corps NOE. Where do we go from here on this?

From: Carver, Larrynn@CALFIRE <Larrynn.Carver@fire.ca.gov>
Sent: Tuesday, January 7, 2020 2:58 PM
To: Short, Lynnette@CALFIRE <Lynnette.Short@fire.ca.gov>
Subject: RE: NOE San Diego Urban Forestry project

Hi Lynnette,

Sorry about the delay, I am still catching up from the break. It was great to have a few days off, hope you had a nice holiday too!

The cultural report looks good, they did a thorough job. I am somewhat familiar with the area and this is exactly what I would expect to have found- any sites that would have been in that area are probably long gone. I agree that there is no need for further archaeological investigation and you should be able to fit under a Cat X.

Let me know if you need anything more from me-

L

Larrynn Carver
Senior State Archaeologist
(951) 901-5029

From: Short, Lynnette@CALFIRE <Lynnette.Short@fire.ca.gov>
Sent: Monday, January 6, 2020 12:54 PM
To: Carver, Larrynn@CALFIRE <Larrynn.Carver@fire.ca.gov>
Subject: NOE San Diego Urban Forestry project

Hi Larrynn, Happy New Year!

I was advised to forward this NOE, checklist and reports your way. (from Chris Browder). In most instances, our Urban forestry grants do not warrant anything beyond the grantee filling out our environmental checklist (which supplants an EERF) and doing a cursory review. However, with this project, there was going to be some tree planting near a riparian area, therefore, we had the grantee conduct more surveys, and submit reports. It was determined the project still fits into a Categorical exemption (which most of ours do). Attached is the NOE, Environmental Checklist, and bio/Arch reports.

Let me know if you have any questions about the project.

Hope all is well

Lynnette

Lynnette Short
Urban Forester - Southern Region
California Department of Forestry & Fire Protection

CAL FIRE

San Diego Unit Headquarters
2249 Jamacha Rd.
El Cajon, CA 92019
(619) 937-1410

Every Californian should conserve water and keep trees alive. Find out how at:
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November 19, 2019

Ms. Lauren Welch
Development Manager
Urban Corps of San Diego County
3127 Jefferson Street
San Diego, CA 92110

Re: Cultural Resource Report for the 4.17-Acre area Proposed for CALFIRE Tree Planting within the Arroyo Preserve, Rancho Santa Fe

Dear Ms. Welch,

Tierra Environmental Services, Inc. (Tierra) conducted a cultural resources pedestrian survey of lands proposed for vegetation restoration within the Arroyo Preserve, San Dieguito River Valley of the community of Rancho Santa Fe. This letter report briefly details the findings of the survey effort.

Project Description

The Rancho Santa Fe Association, a nonprofit organization overseeing the community of Rancho Santa Fe, seeks to plant 450 native trees within the Arroyo Preserve open space land along the San Dieguito River Valley (Figure 1). The Project is bounded by open space lands on all sides and is located within the southern half of Section 22 and the northern half of Section 27, Township 13 South, Range 3 West of the Rancho Santa Fe 7.5' USGS quadrangle (Figure 2). The trees would be planted across seven discontinuous parcels totaling 4.17 acres collectively (Project) located in the central portion of San Diego County (Figure 3). Figures 1, 2 and 3 are located in Appendix A of this document.

This effort is being funded through a grant awarded through CALFIRE, which will assume lead agency for the Project. The work associated with this document was conducted in accordance with the California Environmental Quality Act (CEQA). The archaeological survey was conducted to determine if any cultural resources eligible for inclusion in the California Register of Historic Resources (California Register) are located within the project area.

Archival Data

A records search was conducted at the South Coastal Information Center (SCIC) on November 13, 2019. The search indicated the project area has been surveyed, either in part or completely, four times in the past. Initially surveyed in 1988 by Westec Services, Inc. the project area was also surveyed in 1995 by Ogden Environmental and Energy Services, by ASM Affiliates in 2002, and most recently by Gallegos & Associates in 2003. These surveys did not identify any cultural resources within the current project area. However, the Rancho Santa Fe historical district (P-37-035277) was designated by the County of San Diego in 2004 as a horticultural district. The boundaries of this district encompass the project area. However, there are no contributing factors recorded within the project area.

Tables 1 and 2, located in Appendix B of this document, detail the results of the records search.

Historic aerals were referenced for this effort and resulted in one structure being identified adjacent to the project area. The structure, a residential property according to Caitlin Kreutz of the Rancho Santa Fe Association, was observed on maps between the years of 1966 and 2014.

Survey Parcels and Findings

The seven parcels were visited by archaeologist, Ms. Hillary Murphy, of Tierra on November 14, 2019. Accompanying Ms. Murphy on the survey was Rancho Santa Fe Association representative, Ms. Caitlin Kreutz. The seven planting areas are referred to as: Pond North Bank, Pond, Pond South Bank, Arroyo Northwest Floodplain, Southeast Flood Terrace, Campground Downstream, Downstream Trailside. Each planting area was surveyed with standard ten-meter transects and the details are described in detail below, in Table 3. The pedestrian survey was conducted to adequately identify cultural resources.

Table 3. Survey Results

Planting Area	Visibility	Cultural Resources Present	Survey Results & Disturbances
Pond North Bank	Good 70%	None observed	Picnic benches, irrigation lines, and hiking trails were observed throughout the project area. Multiple volcanic boulder outcrops are present within the project area as well, though are not a parent material suitable for tool procurement. Portions of the ground are covered with leaf duff and mulch, hindering full visibility of the parcel.
Pond	Good 50%	None observed	Drainage methods and modern rock-lined paths are present throughout the project area.
Pond South Bank	Excellent 95%	None observed	Hiking trails are present running the length of the project area. Vegetation appears to have been cleared and portions of the project area have been graded and terraced.
Arroyo Northwest Floodplain	Fair 25%	None observed	The majority of the project area has been landscaped with grass ground cover, ornamental trees and shrubs.
Southeast Flood Terrace	Good 75%	None observed	The project area has been heavily disturbed with concrete and asphalt rubble from the demolition of the aforementioned residential home circa 2014. Additionally, much of the project area is covered with mulch hindering visibility to some degree.
Campground Downstream	Poor 10%	None observed	Much of this parcel is covered with leaf duff and dense vegetation on the western half, hindering visibility. A wooden post-and-beam fence and hitching post are present but appear to be modern and not present during the valley's clearing in 1980.

Table 3. Survey Results

Planting Area	Visibility	Cultural Resources Present	Survey Results & Disturbances
Downstream Trailside	Poor 10%	None observed	This parcel consists heavily of dense brush and ground cover comprised of plants, felled trees, and mulch.

In referencing the historic aerials, it was observed that between the years of 1967 and 1980, the valley was heavily graded and the river redirected within it. This grand-level of disturbance was evidenced by the drastic changes between areas with established vegetation against areas with no vegetation. Furthermore, the general vicinity is used recreationally with multiple picnic benches, parking lots, and hiking trails throughout. At the time of survey, crews were present and removing invasive Eucalyptus trees from the river beds. The project's proposed tree planting would replace the invasive species with native trees.

Results & Recommendations

The project area proposed for vegetation restoration has been heavily disturbed over decades of grubbing and grading. No cultural resources were observed during the pedestrian survey. It is recommended that no further archaeological work be required at this time. It is also our conclusion, that the proposed tree planting project will have no adverse impact on the Historical District (P-37-035277).

Please let me know if you have any questions or would like any additional information.

Sincerely,



Dr. Michael Baksh, Principal Investigator
Hillary Murphy, Archaeologist
Tierra Environmental Services, Inc.

Appendix A. Figures 1 – 3
Appendix B. Records Search Results

References Cited

Historic Aerials

2019 Internet research conducted November 18, 2019. <https://www.historicaerials.com/viewer>

Kreutz, C.

2019 Personal communication with H. Murphy on November 14, 2019.

*Ms. Lauren Welch
November 18, 2019
Appendices*

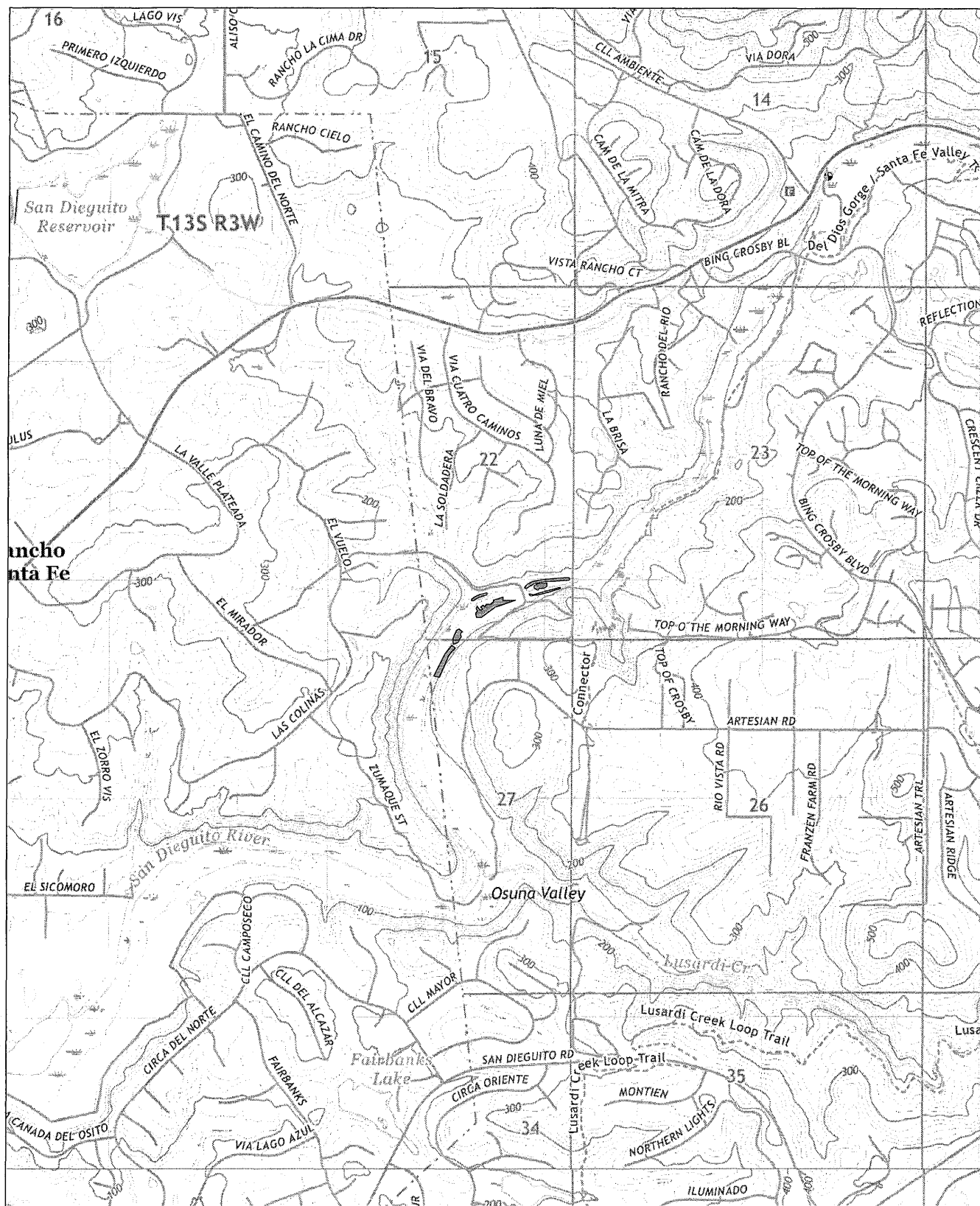
Appendix A. Figures 1, 2, and 3



Figure 1. Regional Location Map



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USGS 7.5' Quadrangle: Rancho Santa Fe (2018), Del Mar (2018)

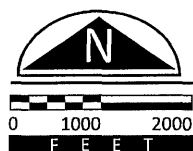


Figure 2. Project Location Map



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Source: Google Earth 2018

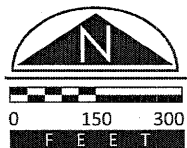


Figure 3. Project Aerial



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*Ms. Lauren Welch
November 18, 2019
Appendices*

Appendix B. Records Search Results

Table 1. Cultural Investigations within ½-Mile of the Project Area

**bolded entries intersect with the project area*

Designation	Title	Author(s)	Date
SD-00298	An Archaeological Survey of Rancho Del Dios for Rick Engineering, San Diego, CA	Bull, C. and P. Ezell	1974
SD-00383	Report on an Archaeological Reconnaissance of a 26-Acre Parcel Near Rancho Santa Fe, San Diego County, CA	Bissell, R.	1996
SD-00672	A Cultural Resources Overview for the San Dieguito River Valley, San Diego, CA	Gallegos, D. et al.	1988
SD-01241	Archaeological Investigations at Rancho Del Dios, Units Land 2 Rancho Santa Fe, CA	Kaldenberg, R.	1975
SD-01475	Archaeological/Historical/Paleontological Literature Search and Records Check on Rancho Santa Fe Community Services District Reorganization (R080-46) Plan Located in the Rancho Santa Fe Area of the County of San Diego	Scientific Resource Surveys, Inc.	1981
SD-02972	Cultural Resource Testing and Evaluation Program for the Balcor Tentative Map Area, Santa Fe Valley Specific Plan Area, San Diego County, CA	Glenn, B. et al.	1995
SD-03739	Cultural Resources Investigations within the Starwood Project Area (TM 5073), Santa Fe Valley, San Diego County, CA	Glenn, B.	1999
SD-04157	Archaeological and Historical Literature Search and Records Check for Alternative Alignments for Highway 680 San Diego County, CA	Whitney-Desautels, N.	1991
SD-04704	Cultural Resource Investigations for the Hacienda Santa Fe – Rancho Del Rio Assessment District Sewage Facilities Rancho Santa Fe, San Diego County	Mooney, B.	1992
SD-04799	Rancho Del Dios Units 1 & 2, Rancho Santa Fe	Kaldenberg, R.	1975
SD-04879	Santa Fe Valley Specific Plan Draft Environmental Impact Report (Specific Plan 95-001; Rezone 95-008; Log 95-8-21)	Ogden Environmental and Energy Services	1995
SD-05251	Environmental Data Statement San Onofre to Encina 230 kV Transmission Line Addendum No. 3	Westec Services	1979
SD-09104	Cultural Resources Inventory and Testing Report for the Vista Hills Property, Rancho Santa Fe, San Diego County, CA	Cooley, T. and A. Craft	2004
SD-09559	Cultural Resource Survey for the Rancho Santa Fe Parklands Project, San Diego, CA	Guerrero, M. and D. Gallegos	2003
SD-10127	Addendum to the Historic Properties Treatment Plan for Sites within and Adjacent to the Proposed C.W. Harris Site Archaeological District Starwood Project Area (TM5073) Santa Fe Valley, San Diego County, CA	Cooley, T. and R. Carrico	2001
SD-10142	Historic Properties Treatment Plan for Sites within and Adjacent to the Proposed C. W. Harris Site Archaeological District Starwood Project Area (TM5073) Santa Fe Valley, San Diego County, CA	Mooney and Associates	2000
SD-10855	Christiancy, George A.C. Residence, 17078 El Mirador, Rancho Santa Fe, CA 92067	Various	n.d.
SD-11366	Cultural Resources Survey Report for Levie – TPM 21065; Log No. 07-08-005, APN 267-132-10-00- Negative Findings	Shalom, D.	2007
SD-11623	San Dieguito River Valley Inventory of Archaeological Resources	Hector, S. and A. Brewster	2002

Table 1. Cultural Investigations within ½-Mile of the Project Area

**bolded entries intersect with the project area*

Designation	Title	Author(s)	Date
SD-12028	Cultural Resource Survey for the Lago San Marcos Project San Marcos, CA	Guerrero, M. et al.	2006
SD-13520	Cultural Resources Study of the Encinitas, CA Project Externet Systems, Inc. Site No. SW-CA-MISC-01, Near Rancho Santa Fe, San Diego County, CA 92024	Historic Resources Associates	2007
SD-14378	Cultural Resource Survey and Test for the Improvement Plan for TPM 17341 and Grading Plan L-15684, Santa Fe Hills, San Diego County, CA (APNs 267-145-09 to 12, 267-146-05, and 267-146-08)	Pignuolo, A.	2013
SD-14972	Cultural Resource Survey for the Improvement Plan for TPM 17341 and Grading Plan L-15684, Santa Fe Hills, San Diego County, CA	Pignuolo, A.	2012
SD-15811	Cultural Resources Inventory for the Crosby Homeowners Association Habitat Improvement EQIP Project, Rancho Santa Fe, San Diego County, CA	Grijalva, D. et al.	2013
SD-17161	Cultural Resources Report for the Artesian Road Project, San Diego County, CA PDS2013-TPM-21207, PDS2013-STP13-018	Comeau, B. and M. Hale	2014
SD-17619	Cultural Resources Monitoring Report for the Bache Residence Project, Rancho Santa Fe, San Diego County, CA (PDS2014-STP-14-026)	Smith, B.	2018

Table 2. Cultural Resources Recorded within ½-Mile of the Project Area

**bolded entries intersect with the project area*

Designation	Description	Recorder(s)	Date
P-37-000320	Prehistoric: Artifact Scatter	Warren, C.	1958
P-37-004578	Prehistoric: Habitation Debris	Unknown	n.d.
P-37-006130	Prehistoric: Artifact Scatter	Eckhardt, L.	1978
P-37-010840	Prehistoric: Artifact Scatter	Bissell, R.	1986
P-37-013029	Prehistoric: Quarry, Artifact Scatter	James, D. et al.	1992
P-37-013032	Prehistoric: Quarry, Artifact Scatter	Glenn, J.	1992
P-37-013033	Prehistoric: Bedrock Milling, Artifact Scatter	Glenn, B. et al.	1992
P-37-013034	Prehistoric: Artifact Scatter	James, D.	1992
P-37-013035	Prehistoric: Bedrock Milling	James, D. et al.	1992
P-37-013036	Prehistoric: Bedrock Milling	James, D. et al.	1992
P-37-013038	Prehistoric: Campsite, Bedrock Milling	Glenn, B. et al.	1992
P-37-013039	Prehistoric: Artifact Scatter	Mealey, M. et al.	1992
P-37-013824	Isolate: Prehistoric: Lithic Artifacts	Cooley, T. et al.	1994
P-37-013825	Isolate: Prehistoric: Lithic Artifacts	Cooley, T. et al.	1994
P-37-013827	Prehistoric: Artifact Scatter	Cooley, T. et al.	1994
P-37-015259	Isolate: Prehistoric: Lithic Artifact	Glenn, B.	1992
P-37-015263	Isolate: Prehistoric: Lithic Artifact	James, D. et al.	1992
P-37-015266	Isolate: Prehistoric: Lithic Artifact	James, D. et al.	1992
P-37-015267	Isolate: Prehistoric: Lithic Artifact	James, D. et al.	1992
P-37-015269	Isolate: Prehistoric: Shell	Campbell, S. et al.	1992
P-37-015289	Prehistoric: Artifact Scatter	Campbell, S. et al.	1992
P-37-025702	Historic: Dam	Jordan, S.	2003
P-37-027469	Historic: Single-Family Residence	Brandes, R.	1990
P-37-032880	Prehistoric: Bedrock Milling	Pigniolo, A.	2012
P-37-033538	Historic: Privy	Maxfeldt, M.	2013
P-37-035277	Historic: Cultural District	Vonn, M.	2004