



CITY OF CHICO
BIDWELL PARK AND PLAYGROUND COMMISSION (BPPC)

Regular Meeting Agenda
April 30, 2012, 6:30 pm
Municipal Center - 421 Main Street, Council Chamber

Materials related to an item on this Agenda are available for public inspection in the Park Division Office at 965 Fir Street during normal business hours or online at <http://www.chico.ca.us/>.

1. REGULAR COMMISSION MEETING

- 1.1. Call to Order
- 1.2. Roll Call
- 1.3. Special Recognition - Community Action Volunteers in Education (CAVE)

2. CONSENT AGENDA

All matters listed under the Consent Agenda are to be considered routine and enacted by one motion.

- 2.1. Approval of Meeting Minutes

Action: Approve minutes of BPPC held on 03/26/12.

- 2.2. Approval of Permit for the 2nd Annual Making Strides Against Breast Cancer Walk, October 20, 2012

Applicant requests a permit to host the Making Strides Against Breast Cancer Walk at One Mile on October 20, 2012. This will be the 2nd year the American Cancer Society has held this event and they anticipate approximately 1000 participants. This application requires BPPC consideration as the group is requesting to set-up for the event on October 19, 2012, therefore requesting the use of a park area for multiple days and for more than 10-hours. **Recommendation:** Approval of the permit use application.

- 2.3. Approval of a Permit for the 4th Annual Pedal Powered Music Festival at Camelia Way Park, June 2, 2012.

Applicant requests a permit to host a bicycle pedal powered music festival on June 2, 2012. The applicant expects approximately 150 attendees and the event will run from 12:00-1:15 p.m. The event is associated with "Bike Chico Week" and will take place at three separate locations, including the Cedar Grove Meadow (application approved by the Park Division). This application is being considered by the Commission because the group is requesting to host a public event in an area that is not designated as an intensive use area. **Recommendation:** Approval of the permit use application with conditions.

ITEMS REMOVED FROM CONSENT – IF ANY

3. NOTICED PUBLIC HEARINGS - NONE

4. REGULAR AGENDA

- 4.1. Review and Approval of Chico Creek Nature Center Outdoor Seating Area Project

A senior construction management student at CSU, Chico has presented a proposal to the Chico Creek Nature Center for an cement outdoor seating area, which would be located between the old and new buildings. **Recommendation:** Staff recommends BPPC approval of Chico Creek Nature Center's (CCNC) request to proceed with the building of an outdoor seating area to be located between the old and new CCNC buildings.

5. BUSINESS FROM THE FLOOR

Members of the public may address the Commission at this time on any matter not already listed on the agenda; comments are limited to three minutes. The Commission cannot take any action at this meeting on requests made under this section of the agenda.

6. **REPORTS**

Items provided for the Commission's information and discussion. No action can be taken on any of the items unless the Commission agrees to include them to a subsequent posted agenda.

- 6.1. Special Report: Draft 2011 Year End Monitoring Report for the Peregrine Point Disc Golf Long Course – Dan Efseaff, Park and Natural Resource Manager.
- 6.2. Tree Committee Reports – March and April Summaries – Jim Mikles, Chair
- 6.3. Urban Forest Manager's Report - Denice Britton, Urban Forest Manager
- 6.4. Park and Natural Resources Manager's Report - Dan Efseaff, Park and Natural Resource Manager.

7. **ADJOURNMENT**

Adjourn to the next regular meeting on Tuesday, May 29, 2012 at 6:30 p.m. in the Council Chamber of the Chico Municipal Center building (421 Main Street, Chico, California).

Please contact the Park Division Office at (530) 896-7800 if you require an agenda in an alternative format or if you need to request a disability-related modification or accommodation. This request should be received at least three working days prior to the meeting.



CITY OF CHICO
BIDWELL PARK AND PLAYGROUND COMMISSION (BPPC)

Minutes of
March 26, 2012 Regular Meeting

1. REGULAR COMMISSION MEETING

1.1. Call to Order

Chair Ober called the meeting to order at 6:30 pm.

1.2. Roll Call

Commissioners present:

Mary Brentwood
Clay Craig
Lisa Emmerich
Jim Mikles
Jim Moravec
Richard Ober

Commissioners absent: Mark Herrera

Staff present: Dan Efseaff (Park and Natural Resource Manager), Denice Britton (Urban Forest Manager), Lise Smith-Peters (Management Analyst), and Cris Carroll, Community Development Manager.

1.3. Special Recognition – North Valley Tree Service

BPPC Chair Rich Ober and Urban Forest Manager Denice Britton presented Tom Bettencourt of North Valley Tree Service with a special recognition of the donated services to prune one of the City's heritage trees.

1.4. Special Presentation: Bidwell Park Rephotography - Byron Wolfe, CSU Chico.

Dr. Wolfe presented information on the use of photography in showing changes in landscapes. Mr. Wolfe utilizes photos from the 1870s taken by the U.S. Geological Survey and then returned to the location to take current photos from the same vantage point. The technique is useful as a tool for monitoring changes and noting changes in land use and management. He has a photo of Salmon Hole in the late 1800s and it shows the Bidwells visiting the area and compares it with a photo taken in the later 1900s. According to Dr. Wolfe, there are 15-20 photos in CSU, Chico's Special Collections taken in Bidwell Park during the 19th century, which would serve as baseline data for the Park.

2. CONSENT AGENDA

All matters listed under the Consent Agenda are to be considered routine and enacted by one motion.

2.1. Approval of Meeting Minutes

Action: Approve minutes of 02/27/12 BPPC meeting.

2.2. Consideration of a Permit for the 20th Annual Hooked on Fishing Derby, May 19, 2012.

Applicant requests a permit to host a fishing derby in Middle Park at Horseshoe Lake on 5/19/12. BPPC consideration is needed as the applicant is requesting to host a public event at Horseshoe Lake, which is not considered an intensive use area. They will stock the lake with approximately

10,000 lbs of catfish prior to the event. **Recommendation:** Approval of the permit use application with conditions.

2.3. Consideration of a Permit to Host a Sunrise Service at the Cross in Middle Park on April 8, 2012.

Applicant requests a permit to hold a sunrise service at the cross near Parking Area B in Middle Park on 4/08/12. Applicant expects approximately 50 attendees for a service from 6:00 a.m. - 7:30 a.m. This service has been held at this location for the past 14 years. This application is being considered by the BPPC because the group is requesting to host a public event in an area not designated as an intensive use area. **Recommendation:** Approval of the permit use application with conditions.

2.4. Consideration of a Permit for a Wedding at Picnic Site No. 37 in Lower Park on October 6, 2012.

Applicant requests a permit to host a wedding ceremony at Picnic Site No. 37 on 10/06/12. BPPC consideration is needed as the applicant is requesting the exclusive use of a non-exclusive use area. **Recommendation:** Approval of the permit use application with conditions.

MOTION: Approve the consent agenda as submitted. **MADE BY:** Emmerich. **SECOND:** Brentwood. **AYES:** 6 (Brentwood, Craig, Emmerich, Mikles, Moravec, Ober). **NOES:** 0. **ABSENT:** 1 (Herrera).

ITEMS REMOVED FROM CONSENT – if any

3. NOTICED PUBLIC HEARINGS - None

4. REGULAR AGENDA

4.1. Acceptance of Chico Community Organization Funding Requests for FY 2012-13

The City's Community Organization Funding Program (COFP) provides applications that involve City parks or facilities to the BPPC for acceptance. Applications have been received from 1) the Chico Creek Nature Center, and 2) the CA Urban Streams Alliance (Stream Team). The BPPC's recommendations are then provided to the Finance Committee as it considers budget recommendations for the COFP. Cris Carroll, Community Development Manager, explained that both community agencies will have the opportunity to present and discuss the merit of their requests before the Finance Committee, who will ultimately decide on providing financial support or not.

Courtney Ferrell, Executive Director of the Chico Creek Nature Center, stated that their request would help cover administrative staffing costs. Commissioner Brentwood inquired about the CCNC repayment of the City's loan for the new building. Ms. Ferrell explained that she is requesting a 3 year extension on repayment of the loan so that CCNC may have the time to diversify their funding sources and become more pro-active in their marketing and fundraising so that they can cover all of their costs. She is in her second month at the CCNC and is meeting with various community stakeholders and undertaking new fundraising efforts. They will hold its first fund-drive event on April 21.

MOTION: Approve acceptance of CCNC's application to the CCOP. **MADE BY:** Mikles. **SECOND:** Emmerich. **AYES:** 6 (Brentwood, Craig, Emmerich, Mikles, Moravec, and Ober). **NOES:** 0. **ABSENT:** 1 (Herrera).

Joe Gleason, Treasurer of the CA Urban Stream Team Alliance, presented information on the Stream Team's activities in Bidwell Park with four monitoring sites established from which the group has collected baseline data on Big Chico Creek for over 8 years. Commissioner Clay asked about whether the testing was a service that needed to go out to bid and how many of the

hours logged pertain to work in the Park. Mr. Gleason stated that the hours are made up of the monthly testing event and the weekly hours conducting students in monitoring Big Chico Creek. Dan explained that the work done does not fall under the current permit needs of testing at Sycamore Pool, which did go out to bid. The Stream Team is providing baseline data and education to volunteers and students. Ms. Carroll stated that this application does differ from past applications but that the education and engagement of the community of volunteers is a benefit to the City. The collection of data and analysis is more of a professional service that they provide.

Ms. Carroll clarified that the Park Commission's role tonight was to determine whether the group's activities are pertinent to the Park and thus recommend the application move to the Finance Committee. Ms. Carroll stated that the Commissioners are welcome to forward comments or questions as well to the applicant for review by the Finance Committee. BPPC will make the decision to accept the application and thus, forward it on to the Finance Committee for making a decision on funding.

MOTION: Approve acceptance of the Stream Team's application to the CCOP. **MADE BY:** Emmerich. **SECOND:** Moravec. **AYES:** 6 (Brentwood, Craig, Emmerich, Mikles, Moravec, and Ober). **NOES:** 0. **ABSENT:** 1 (Herrera).

4.2. Consideration and Approval of a Heritage Tree Application

In February 2010, the Chico Municipal Code (CMC) was amended to establish a Voluntary Heritage Tree Program (CMC Section 16.68.010). A 46" DBH Valley Oak (*quercus lobata*) located at 2135 E 8th St. has been recommended for Heritage Tree status. Commissioner Moravec suggested that diameter standards may need to be examined, since oak species vary in diameter. He also suggested that neighbors whose property is next to a tree being recommended for Heritage Tree status. The Urban Forest Manager stated that the ordinance does not currently require that but it is a very good idea to do so.

MOTION: Approve the application for Heritage Tree status of the Valley Oak located at 2135 E. 8th Street and forward it to City Council for final approval. **MADE BY:** Brentwood. **SECOND:** Craig. **AYES:** 6 (Brentwood, Craig, Emmerich, Mikles, Moravec, and Ober). **NOES:** 0. **ABSENT:** 1 (Herrera).

5. BUSINESS FROM THE FLOOR

Members of the public may address the Commission at this time on any matter not already listed on the agenda; comments are limited to three minutes. The Commission cannot take any action at this meeting on requests made under this section of the agenda.

Dr. Jeni Henri recounted being attacked by a teenage boy in Bidwell Park while out running around 6 pm several weeks ago. She stated that the Police had told her that the park is a dangerous area. She feels that many of these types of incidents are not being brought forward to the public. Dr. Diane Gill also spoke about the need to increase measures to make Bidwell Park safer and that she would like to work with staff on this.

Josh Pitts said that he will be vying for a World Record in walking the most dogs at one time and proceeds would benefit the Butte Humane Society. He has applied for a permit application.

6. REPORTS

Items provided for the Commission's information and discussion. No action can be taken on any of the items unless the Commission agrees to include them to a subsequent posted agenda.

6.1. Tree Committee Verbal Report

Chair Mikles updated the Commission on the Committee's continued progress on drafting an Urban Forest Management Plan. They are trying out an online work planning tool. The City will serve as a pilot for creating a UFMP and a draft of the document has been placed on the City's website for public review. Urban Forest Manager Britton stated that some citizens have requested that the City post a list of trees to be removed on the website prior to their removal.

6.2. Natural Resources Committee

Chair Brentwood gave an update on the Natural Resource Committee's continued progress in reviewing trails and proposed management zones in Middle Park. There were suggestions made to include landmarks on the maps and to identify parking areas more clearly. The Committee will continue to meet and discuss trails in preparation for drafting a Trail Plan, taking into account user needs, attributes, and perceived problems. All of this information is a first step in the start of taking a trail inventory. A timeline and priority of needed tasks will be drafted.

Parks and Natural Resource Manager Efsaef stated that there will be more information located on kiosks and trailhead areas. More information will be provided at kiosks on the types of trail; slope and grade; area cultural resources; etc.

6.3. Urban Forest Manager's Report

Urban Forest Manager Britton reported that the Tree crew is continuing to work on formative pruning on street trees. She discussed the City's celebration of Arbor Day with Chico High School horticulture students, who work with the Volunteer Coordinator. They planted 4 Western Sycamore and 1 Big Leaf Maple at Lost Park. There will be more tree planting workshops for residents who have lost trees and would like them replaced. The citizens sign up for the training and will receive a free tree from the City to plant and care for.

6.4. Park and Natural Resources Manager's Report

Park and Natural Resource Manager Efsaef reported that he had just received the Peregrine Point Disc Golf blue oak analysis and will be working on the monitoring report for the next meeting. Staff will be providing follow-up session with trail volunteers on March 31. There are new requirements for the septic system at Five Mile. At this time the tank is having to be pumped and a long term solution is being sought. Commissioner Moravec asked about the PG&E encroachment and Dan reported that we are waiting on some answers and that funding for underground lines is being expedited.

7. ADJOURNMENT

Adjourned at 8:15 pm to the next regular meeting on April 30, 2012 at 6:30 pm in the Council Chamber of the Chico Municipal Center building (421 W. Main Street, Chico, California).

Date Approved: / / .
Prepared By:

Lise Smith-Peters, Management Analyst

Date

Distribution: BPPC



DATE: 02/25/12
TO: Bidwell Park and Playground Commission
FROM: Jessica Erdahl, Senior Park Ranger
SUBJECT: Approval of Permit for the 2nd Annual Making Strides Against Breast Cancer Walk, October 20, 2012.

Recommendation

Staff recommends that the Commission approve the permit use application on the condition that applicant obtains a permit from CARD to use Sycamore Field and adheres to conditions of the permit, including:

1. Walk time shall be early enough to allow walkers to clear the roadway by the gate opening time of 9:00 a.m.
2. Chalk shall not be used.

Background

Applicant requests a permit to host the Making Strides Against Breast Cancer Walk at One Mile on October 20, 2012. This will be the 2nd year the American Cancer Society has held this event and they anticipate approximately 1000 participants. This application requires BPPC consideration as the group is requesting to set-up for the event on October 19, 2012, therefore requesting the use of a park area for multiple days and for more than 10-hours.

Discussion

The American Cancer Society requests use of the One Mile Recreation Area and Lower Park on Saturday, October 20, 2012 for their annual Making Strides Against Breast Cancer event. They will reserve Sycamore Field on Friday, October 19, 3:00 p.m. for setup and host the event at the One-Mile reservation area and Sycamore Field on October 20, from 6:30 a.m. to 12:00 p.m. (includes set-up and take down). Additionally, they have requested to stage a security guard at the site overnight for security purposes.

Intensive use events in Lower Park are permissible under the Bidwell Park Master Management Plan (BPMMP). The plan also notes that the One-Mile Recreation Area should be managed as a multi-use community recreational resource (O.1M-1).

Distribution:

Matthew A Foor

Attachments:

Application and permit for park use for the 2012 Making Strides Against Breast Cancer Walk

City of Chico

APPLICATION & PERMIT FOR PARK USE

General Services Department - Park Division
 965 Fir Street/ P.O. Box 3420
 Chico, CA 95927-3420
 (530) 896-7800 Fax: (530) 895-4731

SECTION 1 - APPLICANT INFORMATION

Must be 18 or older. No glass beverage containers. Application fee due upon submittal.

THIS RESERVATION IS NOT VALID UNTIL APPROVED BY THE PARK DIVISION.

PLEASE PRINT:

Matthew A. Fair
 Name of Applicant/Contact Person

American Cancer Society
 Organization Name (if applicable)

75A Mangrove Ave
 Home, Organization, or Company Address

Chico CA 95926
 City, State, Zip

530 3428365 530 9660019
 Contact Phone # Alternate Phone #

Type of Event: PUBLIC PRIVATE
Fri October 19, 2012 3PM-6PM
Sat., October 20, 2012 7am-12 noon
 Day and Date of Activity

Friday 3PM - 6PM
Saturday 7am To: 12 noon
 From: Total Time Needed for Set-up, Event, and Clean-up

From: 7:30am To: 10:15am 1,000
 Time of Event Number of people

E-mail address matthew.fair@caner.org

Note: Park gates will not remain closed beyond normal opening time for any event with less than 1,000 people. All races with less than 1,000 people at One Mile must start before 8:30am. Street closure(s) subject to approval.

AREA REQUESTED: (Please check if requested)

- Bidwell Bowl Amphitheater
- Electricity (15 amp)
- Note: Special conditions apply for amplified sound (12R.08.263 CMC)
- Cedar Grove Picnic Area Meadow
- Electricity (15 amp) 100 amp Electrical Service
- tables, restroom area (circle) Water (public events only)
- Children's Playground
- Electricity (15 amp)-Pick up key on: _____ between 8:00 AM-4:30 PM
- Water (public events only) 100 amp Electrical Service
- City Plaza
- Electricity (15 amp) 100 amp Electrical Service
- Event Restrooms Water (public events only)
- Fountain - On Fountain - Off
- Meter Bags # _____ Sound Curtain

- Council Ring
- Fire Permit
- Five Mile Picnic Area
- One Mile Picnic/Barbeque Area - Water available
- Oak Grove A Oak Grove B
- Sycamore Way Parking Lot Closure-Public Events ONLY
- Electricity (15 amp) tables, trees, parking area, restroom area
- Band Stand (15 amp) (circle above)
- BBQ-Pick up key on: _____ between 8:00 AM - 4:30 PM
- Depot Park
- Electricity (15 amp)
- Lower Bidwell Park (public events only): _____
- Upper Bidwell Park (public events only): _____
- Other (specify) (public events only): _____

Description of Event: Making Strides Breast Cancer 5K Walk fundraiser
for American Cancer Society - set up on CARD
Sycamore field NOT Park side
 FOR PARK RANGER ASSISTANCE, during event, CALL 530-897-4900 (Police Department Dispatch)

SECTION 2 - PERMIT FEES

- Application Fee \$ 18.00 (Non-Refundable)
- Reservation Fee \$ 21.00 (\$10.50 minimum, please call for quote)
- Insurance Fee \$ 39.50 (\$38.50 to process outside insurance)
- Vendor Fee # _____ \$ _____ (\$5.50 per vendor)
- Additional Park Use Fees \$ _____ (see fee schedule)
- Damage Deposit \$ 100.00 (\$100.00 refundable following acceptable clean-up of park)

Additional fees for City Plaza use:	
Event Restrooms _____ x (\$90.50) = \$ _____	#days
100 amp Electrical _____ x (\$28.50) = \$ _____	#days

(Call Park Office for availability and fee schedule 80.020)

Total Fee Required: \$ 177.50

Fee due upon submittal of application * Make Checks Payable to: City of Chico

City of Chico Cash Receipt No. CR 345113 Paid: CL 6995 Date: 1.6.2012 Received By: TR

Office Distribution:	Permit File (original) Park Field Supervisor	Park Ranger 1 Park Ranger 2	Senior Park Ranger Landscape Inspector.	Applicant Risk Management (e-mail)	Fax (various) 920 Fund
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SECTION 3

CONDITIONS FOR PARK USE

You Are Responsible for Knowing the Park Rules. Please Observe the Following:

- Alcohol** Alcohol is not permitted in any City Park or Playground.
- BBQ's** Portable BBQ's may only be used next to existing BBQ's in Lower Bidwell Park and Five Mile Recreation Areas.
- Bicycles** Must observe all California vehicular codes including one-way streets. Riders are expected to be courteous and yield to equestrian and pedestrian traffic. Helmets must be worn at all times in Upper Park, except when on pavement. Riders must stay on designated trails. Bicycle riding is not allowed in Caper Acres or on the pool deck.
- Bounce Houses** Bounce houses and other similar play equipment, such as dunk tanks or water slides, are only permitted with a reservation and upon approval by the Park Division. The operators of this equipment must provide proof of insurance. Bounce houses are not allowed at Wildwood Park or Caper Acres.
- Campfires** No campfires allowed.
- Camping** No overnight camping allowed. Bidwell Park is a "day use park" only.
- Clean up** Permittee is required to completely clean up area at the conclusion of event. Additional garbage bags may be obtained from the General Services Department at time of reservation. (12R.04.180 CMC)
- Damages** Any damage to City property as a result of this event will be repaired at permittee's expense.
- Dogs** Dogs may be off leash from 5:30 AM until 8:30 AM in Lower Park -- All other times **dogs must be on a leash**. Along the north side of Upper Park Road, dogs may be "off leash" anytime. While "off leash," dogs must remain under control via master's voice. Dogs are not allowed in Caper Acres, One-Mile or Five-Mile swimming areas, or designated swimming holes in Upper Park.
- Electrical** All power extension cords, sound amplification equipment, and staging to be supplied by permittee. Permittee shall provide "tripping" prevention devices over power cords crossing any pathway.
- Fishing** Check California Fish and Game Regulations, <http://www.dfg.ca.gov/regulations/>, Freshwater Sport Fishing, Alphabetical List of Waters with Special Fishing Regulations, (20) Big Chico Creek. Horseshoe Lake: age 14 and over, catch and release; under 14: catch and keep.
- Gate Closures** Upper Park gate at parking area E is closed on Sundays and Mondays and during seasonal wet periods. Gates can be closed for approved special events.
- Glass** No glass beverage containers allowed in any City Park or Playground.
- Horses** Horses must stay on designated trails. Horses are not allowed in One-Mile or Five-Mile Recreation Areas. Horses must cross the creek at approved crossings. Safe and courteous riding is the Park standard.
- Noise** No loud or unusual noises are allowed, including: radios and headsets that can be heard over 50' away. Music/Amplified Sound at One-Mile Recreation Area, please, face all speakers away from Woodland Ave.
- Park Closures** Lower Park is closed from 12:00 am (midnight) until 5:00 am every day, unless directly and actively proceeding to a destination outside of the park. Upper Park is closed between the hours of 11:00 pm and 60 minutes before sunrise every day, unless posted otherwise.
- Signs/Defacing** Defacing of trees, benches, tables, any park fixtures, open ground, or paved roads/paths with markings, staples, tacks, or signs is prohibited. No pinatas, or accessories shall be affixed to trees. Only barricades, cones, or self standing devices may be used for these purposes.
- Smoking** No smoking in Upper Park from May 1st - November 1st. No smoking in City Plaza or Caper Acres any time.
- Swimming** While in the 1-Mile swim area compliance with lifeguards is required for public safety. Pool is open and lifeguards are on duty from Memorial Day through Labor Day.
- Vegetation** No taking, cutting or injury of any vegetation in the Park is allowed.
- Vehicle Traffic**
- While gates are closed, limited use of vehicles to set up for event is permitted. Vehicles must be in compliance with the one-way designation of the roadway, must yield to all other activities (walking, jogging, bicycling, and horseback riding), must travel with flashers on and may not exceed ten (10) miles per hour.
 - Permittee shall provide adequate signs and supervision to avoid conflicts between vehicles, bicycles, equestrians, and general public.
 - Only emergency vehicles will be allowed access through the area of South Park Drive which has been closed to motor vehicles.
 - No vehicles are permitted to travel or park on grass areas.

***I have read and agree to conform to the above rules and conditions:**

Signed: _____

M. J. Jensen

SECTION 4 - INSURANCE

(to be determined by Park Office)

Required, Certificate of Insurance, meeting City standards must be received by: 10/5/2011 Not Required

Organization Named on Certificate of Insurance _____

Permittee shall supply, at least two (2) weeks in advance of the scheduled event, a Certificate of Insurance issued by a company licensed to do business in California with a Best's Insurance Guide rating of "B" or better ("A" rated if Company is unlicensed) which provides evidence of comprehensive and general liability coverage in the amount of \$1,000,000 combined single limit, with policy endorsements as follows:

- (1) Identification of permit applicant, identification of event, date of event.

NOTE: NUMBERS 2 AND 3 MUST BE SEPARATE ENDORSEMENTS:

- (2) The City of Chico, its officers, boards and commissions, and members thereof, its employees and agents are covered as additional insureds as respects to any liability arising out of the activities of the named insured.
- (3) The insurance coverages afforded by this policy shall be primary insurance as respects to the City of Chico, its officers, employees, or agents. Any insurance or self-insurance maintained by the City of Chico, its officers, employees, or agents shall be in excess of the insurance afforded to the named insured by this policy and shall not contribute to it.
- (4) An unqualified statement that "The insurer will provide the City at least ten (10) days prior notice of cancellation or material change in coverage", standard Certificate of Insurance cancellation language is not acceptable

THESE INSURANCE REQUIREMENTS ARE APPLICABLE TO:

- (1) Public Assemblages per Title 12R.08.240, or
- (2) Exclusive use where:
 - (a) Amplified sound is used, or
 - (b) The number of people participating amount to 100 or more.

If insurance is required for your event, please contact Risk Management office at 530-879-7910, 530-895-4733 fax, or riskmanagement@ci.chico.ca.us. Insurance may also be purchased through the City.

Please Note: Your reservation may be cancelled if the insurance is not approved at least two weeks prior to the scheduled event

SECTION 5 - ACCEPTANCE OF CONDITIONS

In signing this Permit, I agree to indemnify and hold the City of Chico and/or the Bidwell Park and Playground Commission free and clear of all claims of damage for injury to persons or property occurring in, upon or about Bidwell Park, and arising from my use of the park as noted above, and to defend any action against the City of Chico resulting from any such claim, without cost to the City.

*I certify that I have read this application thoroughly, followed any and all instructions, understand its contents, will comply with the attached "Conditions for Park Use", will adhere to any additional conditions set forth by this permit, and supplied true and correct information herein to the best of my knowledge and belief.

X M. Johnson Signature of Applicant X 2/6/2012 Date

RETURN THIS FORM TO:

City of Chico - Park Division
965 Fir Street
P.O. Box 3420
Chico, CA 95927-3420
FAX 530-895-4731

**THIS RESERVATION IS NOT VALID UNTIL APPROVED BY THE PARK DIVISION.
A copy of the approved application will be returned to you.**

SECTION 6 - GENERAL SERVICES DIRECTOR AUTHORIZATION

I certify that I have carefully reviewed this application pursuant to Title 12 and 12R of the Chico Municipal Code and hereby recommend that this permit be:

- Approved.
- Approved subject to listed additional condition(s) _____

- Denied by the General Services Director. Reason: _____
- Application fee waived (12R.08.100 CMC). Reason: _____
- Reservation fee waived (12R.08.250 CMC). Reason: _____
- Vendor fee waived (12R.08.250 CMC). Reason: _____
- Insurance fee waived (12R.08.240 CMC). Reason: _____
- Damage deposit fee waived (12R.08.260 CMC). Reason: _____
- Application approved by the Bidwell Park & Playground Commission. Date: _____
- Application denied by the Bidwell Park & Playground Commission. Reason: _____

Date: _____

Signature of General Services Director

Date

EVENT INFORMATION

Please answer the following questions by circling "Yes" or "No"

Is this an annual event? How many years have you been holding this event? <u>2 years</u>	Yes	No
Is there a patron admission, entry or participant fee(s) required? If yes please provide amounts: _____	Yes	No
Will there be amplified sound/music at event? (Please see 'Conditions For Park Use') Specify type <u>(microphone)</u> band, radio, etc): _____ When will amplified sound/music be heard? Time from: <u>8am</u> until: <u>9am</u> amps needed <u>20</u> Note: 100 amp electrical service requires a certified electrician. Please describe the sound equipment that will be used for your event <u>Mic + CD low level background</u>	Yes	No
Will there be any entertainment apparatus? (Operator to provide proof of insurance) [] Bounce house [] Dunk tank [] Climbing wall [] Ropes Course [] Other: _____ Name of Operator: _____	Yes	No
Will there be any vendors at this event? (No glass or alcohol permitted) If "yes" please note the number of vendors anticipated: _____ (submit a, separate, complete list) Does your event include food concession and/or preparation areas? If yes, please describe how food will be served and/or prepared: _____	Yes	No
Will event require that any part of the Park remain closed beyond the normal time of opening? Note: Park gates will not remain closed beyond normal opening time for any event with less than 1,000 people. All races with less than 1,000 people at One Mile must start before 8:30am. (Subject to approval by the General Services Department Director and/or Senior Park Ranger.) If "yes" please state which gate(s): _____ Time of closure from: _____ until: _____	Yes	No
Will there be early entrance into the Park for setup? If "yes" when will monitors be at their position(s)? Time from: <u>6:30</u> until: <u>8:00 AM</u> Note: Gate Monitors are required at the entrances and exits for early Park entrance.	Yes	No
Will event require over night camping for security purposes? (authorized for a maximum of two people, 12R.04.340 CMC) If "yes" how many security personnel will be required? <u>one</u>	Yes	No
Portable Restrooms: You are required to provide portable restroom for events with 200+ participants at your event, in the immediate area of the event site which will be available to the public during your event. Restroom Company <u>Johany on the spot</u> Phone Number _____ Location of portable restrooms <u>By one mile</u> Note: Restrooms shall be removed within 24 hrs after conclusion of event.	Yes	No
Sanitation and Recycling: As an event organizer, you must properly dispose of waste and garbage throughout the term of your event and immediately upon conclusion of the event the area must be returned to a clean condition. For events with 200+ participants, additional trash and recycling cans are required. Number of Trash Cans <u>8</u> Number of Recycling Containers <u>8</u> Sanitation Company <u>Recology</u> Phone Number _____ Note: Sanitation containers shall be removed within 24 hrs after conclusion of event.	Yes	No
Will your event include the use of any signs, banners or decorations? (Please see 'Conditions For Park Use') If yes, please describe type and location: _____	Yes	No
Note: All signs and banners shall be free standing and not affixed to Park property.		
Will water be needed during your event? Please provide your own hose and on/off switch. Note: Please request a water coupler key for City Plaza, Children's Playground and Cedar Grove.	Yes	No
Do you request irrigation to be turned off before and during your event?	Yes	No
CITY PLAZA ONLY: Vehicles are not allowed in City Plaza. Loading and unloading must occur from the streets. Meter bags may be obtained from the City by calling (530) 896-7800.		
Will vendors be placed on the perimeter sidewalks? If yes, a Vend, Peddle, Hawk permit must be obtained from the Engineering Division at 411 Main St, Chico, (530) 879-6900.	Yes	No
Will City street closure(s) be needed? A separate permit must be obtained from the Engineering Division at 411 Main Street, Chico, (530) 879-6900.	Yes	No

City of Chico
Park Permit and Park Use Evaluation

General Services Department-Park Division

965 Fir Street

P.O. Box 3420

Chico, CA 95927

(530) 896-7800 Fax: (530) 895-4731

Applicant Information	
Name of Applicant/Contact Person: Matthew Foor	
Organization: American Cancer Society	
Mailing Address: 754 Mangrove Ave.	
City, State, Zip: Chico, CA 95926	Phone #: 530-966-0019

Event Information	
Name of Event: Making Strides Against Breast Cancer	Public <input checked="" type="checkbox"/> Private <input type="checkbox"/>
Date of Event: October 22-23-2011	Time of Event: Oct 22- 2:00pm-8:00pm Oct 23- 6:30am-12:00pm
Event Location: Oak Grove/5k race course	Type of Event: Fundraiser/walk

Evaluator's Observations	
Anticipated # of Participants: 1000	Estimated # of Participants: 900+
Anticipated # of Vendors: 0	Total Vendors Present: 0
Event Restrooms Reserved: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Event Restrooms Used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
100 amp Electric Reserved: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	100 amp Electric Used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Comments: For such a large group there were no major problems or incidents. They received a pre event phone call and walk through of the Oak Grove Area. One of the other coordinators of the event had previously planned American Heart Association events at the park and was very well prepared. On day of set up they received a water coupler and electricity was turned on. Water coupler was not returned until Monday following the event. The walk started at approximately 8:55am. The group was so large though that when gates were opened at 9:00am there was some competition between vehicles and pedestrians on the road. The group was notified of this issue during the event and afterwards. The group modified the traditional 5k course at the beginning and end. The walk began in the Oak Grove parking area and finished by walking across the sycamore pool bridge then walking on the cement bike path back to the Oak Grove parking area. An extensive amount of chalk was used to draw on the ground. This was not cleaned up and a post event phone call was made to clean up chalk drawings on the road. A security officer was at Oak Grove all Saturday night and also during the event. A bollard was dummy locked in case the vehicle needed to exit.

Recommendations: Coordinate with group to retrieve water coupler prior to event ending. The group has been instructed that the walk must start before 8:45 am to not interfere with vehicles. The coordinator agreed that this would be a good plan. Modifying the end of the 5k route was very good to avoid vehicles and should be done the next year as well. Discuss with group chalk drawings prior to event next year. Encourage group to have security officer at Oak Grove next year to protect property.

Refund Full Deposit: Yes No Hold \$31.00

Evaluator: Andrew Verbrugge 804	Date: 10-24-2011
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cc: Permit File Senior Ranger General Services Director Applicant



DATE: March 25, 2012
TO: Bidwell Park and Playground Commission
FROM: Jessica Erdahl, Senior Park Ranger
SUBJECT: Approval of Permit for the 4th Annual Pedal Powered Music Festival at Camellia Way Park

Recommendation

Staff recommends that the Commission approve the permit use application on the condition that applicant adheres to conditions of the permit, including:

1. No signs or decorations to be attached or hung from City structures, trees, tree barriers, or vegetation.

Background

Applicant requests a permit to host a bicycle pedal powered music festival on June 2, 2012. The applicant expects approximately 150 attendees and the event will run from 12:00-1:15 p.m. The event is associated with “Bike Chico Week” and will take place at three separate locations, including the Cedar Grove Meadow (application approved by the Park Division). This application is being considered by the Commission because the group is requesting to host a public event in an area that is not designated as an intensive use area.

Discussion

Staff has received a permit application from Samantha Zangrilli to hold a music festival from 11:00 a.m. to 1:30 p.m. at the picnic area of Camellia Way Park (includes set-up and take down), on Saturday June 2, 2012. This is the 4th year the music festival has occurred, taking place at Children’s Playground and Cedar Grove in the past.

The Chico Music Bicycle Festival is a free event intended to promote the use of bicycles as a mode of transportation. Event organizers and participants utilize bicycles and trailers to transport stage and musical equipment from location to location. Power generated by bicycles is utilized to provide electricity to the performers and sound equipment.

The Bidwell Park Master Management Plan (BPMMP) notes that non-intensive and intensive uses are permissible in Lower Park, specifically noting that Camellia Way can be utilized for low-intensity events. (3.6.1.1 Permissible Uses in Lower Park/ I. AG/CW-3).

Camellia Way Park is not designated as an intensive use reservation area per 12R.08 of the Chico Municipal Code and Commission approval is therefore required for a public event permit request. Staff does not anticipate any major conflicts, issues, or damage associated with the applicant’s requests. Other than the conditions mentioned above, no other requirements are recommended.

Distribution:

Samantha Zangrilli

Attachments:

Application and permit for park use for a music festival

City of Chico

APPLICATION & PERMIT FOR PARK USE

General Services Department - Park Division
 965 Fir Street/ P.O. Box 3420
 Chico, CA 95927-3420
 (530) 896-7800 Fax: (530) 895-4731

SECTION 1 - APPLICANT INFORMATION

Must be 18 or older • No glass beverage containers • Application fee due upon submittal •

THIS RESERVATION IS NOT VALID UNTIL APPROVED BY THE PARK DIVISION.

PLEASE PRINT:

Samantha Zangrilli
 Name of Applicant/Contact Person

Type of Event: PUBLIC PRIVATE

Butte Environmental Council
 Organization Name (if applicable)

Saturday June 2nd, 2012
 Day and Date of Activity

341 Broadway St. Ste 300
 Home, Organization, or Company Address

From: 11 am To: 1:30 pm
 Total Time Needed for Set-up, Event, and Clean-up

Chico, CA 95928
 City, State, Zip

From: 12 pm To: 1:15 pm 150
 Time of Event Number of people

(530) 591-0198
 Contact Phone # Alternate Phone #

E-mail address Magic Pedal productions@gmail.com
 Note: Park gates will not remain closed beyond normal opening time for any event with less than 1,000 people. All races with less than 1,000 people at One Mile must start before 8:30am. Street closure(s) subject to approval.

AREA REQUESTED: (Please check if requested)

- Bidwell Bowl Amphitheater
 - Electricity (15 amp)
- Note: Special conditions apply for amplified sound (12R.08.263 CMC)
- Cedar Grove Picnic Area Meadow
 - Electricity (15 amp) 100 amp Electrical Service tables, restroom area (circle) Water (public events only)
- Children's Playground
 - Electricity (15 amp)-Pick up key on: _____ between 8:00 AM-4:30 PM
 - Water (public events only) 100 amp Electrical Service
- City Plaza
 - Electricity (15 amp) 100 amp Electrical Service
 - Event Restrooms Water (public events only)
 - Fountain - On Fountain - Off
 - Meter Bags # _____ Sound Curtain

- Council Ring
 - Fire Permit
- Five Mile Picnic Area
- One Mile Picnic/Barbeque Area - Water available
 - Oak Grove A Oak Grove B
 - Sycamore Way Parking Lot Closure-Public Events ONLY
 - Electricity (15 amp) tables, trees, parking area, restroom area
 - Band Stand (15 amp) (circle above)
 - BBQ-Pick up key on: _____ between 8:00 AM - 4:30 PM
- Depot Park
 - Electricity (15 amp)
- Lower Bidwell Park (public events only): _____
- Upper Bidwell Park (public events only): _____
- Other (specify) (public events only): Camelia way

Description of Event: MUSIC Festival - Pedal Powered Electricity

FOR PARK RANGER ASSISTANCE, during event, CALL 530-897-4900 (Police Department Dispatch)

SECTION 2 - PERMIT FEES

- Application Fee \$ 18.00 (Non-Refundable)
- Reservation Fee \$ 28.50 (\$10.50 minimum, please call for quote)
- Insurance Fee \$ no fee (\$38.50 to process outside insurance)
- Vendor Fee # _____ \$ _____ (\$5.50 per vendor)
- Additional Park Use Fees \$ _____ (see fee schedule)
- Damage Deposit \$ N/A (\$100.00 refundable following acceptable clean-up of park)

(Call Park Office for availability and fee schedule 80.020)

Additional fees for City Plaza use:	
Event Restrooms _____ x (\$90.50) = \$ _____	#days
100 amp Electrical _____ x (\$28.50) = \$ _____	#days

Total Fee Required: \$ 46.50

Fee due upon submittal of application * Make Checks Payable to: City of Chico

City of Chico Cash Receipt No. CR347397 Paid: 46.50 Date: 3/1/12 Received By: LH

Office Distribution:	Permit File (original) Park Field Supervisor	Park Ranger 1 Park Ranger 2	Senior Park Ranger Landscape Inspector.	Applicant Risk Management (e-mail)	Fax (various) 920 Fund
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SECTION 4 – INSURANCE

(to be determined by Park Office)

Required, Certificate of Insurance, meeting City standards must be received by: _____ Not Required

Organization Named on Certificate of Insurance _____

Permittee shall supply, at least two (2) weeks in advance of the scheduled event, a Certificate of Insurance issued by a company licensed to do business in California with a Best's Insurance Guide rating of "B" or better ("A" rated if Company is unlicensed) which provides evidence of comprehensive and general liability coverage in the amount of \$1,000,000 combined single limit, with policy endorsements as follows:

- (1) Identification of permit applicant, identification of event, date of event.

NOTE: NUMBERS 2 AND 3 MUST BE SEPARATE ENDORSEMENTS:

- (2) The City of Chico, its officers, boards and commissions, and members thereof, its employees and agents are covered as additional insureds as respects to any liability arising out of the activities of the named insured.
- (3) The insurance coverages afforded by this policy shall be primary insurance as respects to the City of Chico, its officers, employees, or agents. Any insurance or self-insurance maintained by the City of Chico, its officers, employees, or agents shall be in excess of the insurance afforded to the named insured by this policy and shall not contribute to it.
- (4) An unqualified statement that "The insurer will provide the City at least ten (10) days prior notice of cancellation or material change in coverage", standard Certificate of Insurance cancellation language is not acceptable

THESE INSURANCE REQUIREMENTS ARE APPLICABLE TO:

- (1) Public Assemblages per Title 12R.08.240, or
- (2) Exclusive use where:
 - (a) Amplified sound is used, or
 - (b) The number of people participating amount to 100 or more.

If insurance is required for your event, please contact Risk Management office at 530-879-7910, 530-895-4733 fax, or riskmanagement@ci.chico.ca.us. Insurance may also be purchased through the City.

Please Note: Your reservation may be cancelled if the insurance is not approved at least two weeks prior to the scheduled event

SECTION 5 - ACCEPTANCE OF CONDITIONS

In signing this Permit, I agree to indemnify and hold the City of Chico and/or the Bidwell Park and Playground Commission free and clear of all claims of damage for injury to persons or property occurring in, upon or about Bidwell Park, and arising from my use of the park as noted above, and to defend any action against the City of Chico resulting from any such claim, without cost to the City.

*I certify that I have read this application thoroughly, followed any and all instructions, understand its contents, will comply with the attached "Conditions for Park Use", will adhere to any additional conditions set forth by this permit, and supplied true and correct information herein to the best of my knowledge and belief.

X [Signature] Signature of Applicant X 3/1/12 Date

RETURN THIS FORM TO:

City of Chico - Park Division
965 Fir Street
P.O. Box 3420
Chico, CA 95927-3420
FAX 530-895-4731

THIS RESERVATION IS NOT VALID UNTIL APPROVED BY THE PARK DIVISION.

A copy of the approved application will be returned to you.

SECTION 6 – GENERAL SERVICES DIRECTOR AUTHORIZATION

I certify that I have carefully reviewed this application pursuant to Title 12 and 12R of the Chico Municipal Code and hereby recommend that this permit be:

- Approved.
- Approved subject to listed additional condition(s) _____

- Denied by the General Services Director. Reason: _____
- Application fee waived (12R.08.100 CMC). Reason: _____
- Reservation fee waived (12R.08.250 CMC). Reason: _____
- Vendor fee waived (12R.08.250 CMC). Reason: _____
- Insurance fee waived (12R.08.240 CMC). Reason: _____
- Damage deposit fee waived (12R.08.260 CMC). Reason: _____
- Application approved by the Bidwell Park & Playground Commission. Date: _____
- Application denied by the Bidwell Park & Playground Commission. Reason: _____

Date: _____

Signature of General Services Director

Date

SECTION 3

CONDITIONS FOR PARK USE

You Are Responsible for Knowing the Park Rules. Please Observe the Following:

- Alcohol** Alcohol is not permitted in any City Park or Playground.
- BBQ's** Portable BBQ's may only be used next to existing BBQ's in Lower Bidwell Park and Five Mile Recreation Areas.
- Bicycles** Must observe all California vehicular codes including one-way streets. Riders are expected to be courteous and yield to equestrian and pedestrian traffic. Helmets must be worn at all times in Upper Park, except when on pavement. Riders must stay on designated trails. Bicycle riding is not allowed in Caper Acres or on the pool deck.
- Bounce Houses** Bounce houses and other similar play equipment, such as dunk tanks or water slides, are only permitted with a reservation and upon approval by the Park Division. The operators of this equipment must provide proof of insurance. Bounce houses are not allowed at Wildwood Park or Caper Acres.
- Campfires** No campfires allowed.
- Camping** No overnight camping allowed. Bidwell Park is a "day use park" only.
- Clean up** Permittee is required to completely clean up area at the conclusion of event. Additional garbage bags may be obtained from the General Services Department at time of reservation. (12R.04.180 CMC)
- Damages** Any damage to City property as a result of this event will be repaired at permittee's expense.
- Dogs** Dogs may be off leash from 5:30 AM until 8:30 AM in Lower Park -- All other times **dogs must be on a leash**. Along the north side of Upper Park Road, dogs may be "off leash" anytime. While "off leash," dogs must remain under control via master's voice. *Dogs are not allowed in Caper Acres, One-Mile or Five-Mile swimming areas, or designated swimming holes in Upper Park.*
- Electrical** All power extension cords, sound amplification equipment, and staging to be supplied by permittee. Permittee shall provide "tripping" prevention devices over power cords crossing any pathway.
- Fishing** Check California Fish and Game Regulations, <http://www.dfg.ca.gov/regulations/>, Freshwater Sport Fishing, Alphabetical List of Waters with Special Fishing Regulations, (20) Big Chico Creek. Horseshoe Lake: age 14 and over, catch and release; under 14: catch and keep.
- Gate Closures** Upper Park gate at parking area E is closed on Sundays and Mondays and during seasonal wet periods. Gates can be closed for approved special events.
- Glass** No glass beverage containers allowed in any City Park or Playground.
- Horses** Horses must stay on designated trails. Horses are not allowed in One-Mile or Five-Mile Recreation Areas. Horses must cross the creek at approved crossings. Safe and courteous riding is the Park standard.
- Noise** No loud or unusual noises are allowed, including: radios and headsets that can be heard over 50' away. Music/Amplified Sound at One-Mile Recreation Area, please, face all speakers away from Woodland Ave.
- Park Closures** Lower Park is closed from 12:00 am (midnight) until 5:00 am every day, unless directly and actively proceeding to a destination outside of the park. Upper Park is closed between the hours of 11:00 pm and 60 minutes before sunrise every day, unless posted otherwise.
- Signs/Defacing** Defacing of trees, benches, tables, any park fixtures, open ground, or paved roads/paths with markings, staples, tacks, or signs is prohibited. No pinatas, or accessories shall be affixed to trees. Only barricades, cones, or self standing devices may be used for these purposes.
- Smoking** No smoking in Upper Park from May 1st - November 1.st No smoking in City Plaza or Caper Acres any time.
- Swimming** While in the 1-Mile swim area compliance with lifeguards is required for public safety. Pool is open and lifeguards are on duty from Memorial Day through Labor Day.
- Vegetation** No taking, cutting or injury of any vegetation in the Park is allowed.
- Vehicle Traffic**
- While gates are closed, limited use of vehicles to set up for event is permitted. Vehicles must be in compliance with the one-way designation of the roadway, must yield to all other activities (walking, jogging, bicycling, and horseback riding), must travel with flashers on and may not exceed ten (10) miles per hour.
 - Permittee shall provide adequate signs and supervision to avoid conflicts between vehicles, bicycles, equestrians, and general public.
 - Only emergency vehicles will be allowed access through the area of South Park Drive which has been closed to motor vehicles.
 - No vehicles are permitted to travel or park on grass areas.

***I have read and agree to conform to the above rules and conditions:**

Signed: _____




EVENT INFORMATION

Please answer the following questions by circling "Yes" or "No"

Is this an annual event? How many years have you been holding this event? <u>4</u>	Yes	No
Is there a patron admission, entry or participant fee(s) required? If yes please provide amounts: _____	Yes	No
Will there be amplified sound/music at event? (Please see 'Conditions For Park Use') Specify type (microphone, band, radio, etc): <u>Bands</u>	Yes	No
When will amplified sound/music be heard? Time from: _____ until: _____ amps needed _____ Note: 100 amp electrical service requires a certified electrician. Please describe the sound equipment that will be used for your event _____		
Will there be any entertainment apparatus? (Operator to provide proof of insurance) <input type="checkbox"/> Bounce house <input type="checkbox"/> Dunk tank <input type="checkbox"/> Climbing wall <input type="checkbox"/> Ropes Course <input type="checkbox"/> Other: _____ Name of Operator: _____	Yes	No
Will there be any vendors at this event? (No glass or alcohol permitted) If "yes" please note the number of vendors anticipated: _____ (submit a, separate, complete list) Does your event include food concession and/or preparation areas? If yes, please describe how food will be served and/or prepared: _____	Yes	No
Will event require that any part of the Park remain closed beyond the normal time of opening? Note: Park gates will not remain closed beyond normal opening time for any event with less than 1,000 people. All races with less than 1,000 people at One Mile must start before 8:30am. (Subject to approval by the General Services Department Director and/or Senior Park Ranger.) If "yes" please state which gate(s): _____ Time of closure from: _____ until: _____	Yes	No
Will there be early entrance into the Park for setup? If "yes" when will monitors be at their position(s)? Time from: _____ until: _____ Note: Gate Monitors are required at the entrances and exits for early Park entrance.	Yes	No
Will event require over night camping for security purposes? (authorized for a maximum of two people, 12R.04.340 CMC) If "yes" how many security personnel will be required? _____	Yes	No
Portable Restrooms: You are required to provide portable restroom for events with 200+ participants at your event, in the immediate area of the event site which will be available to the public during your event. Restroom Company _____ Phone Number _____ Location of portable restrooms _____ Note: Restrooms shall be removed within 24 hrs after conclusion of event.	Yes	No
Sanitation and Recycling: As an event organizer, you must properly dispose of waste and garbage throughout the term of your event and immediately upon conclusion of the event the area must be returned to a clean condition. For events with 200+ participants, additional trash and recycling cans are required. Number of Trash Cans _____ Number of Recycling Containers _____ Sanitation Company _____ Phone Number _____ Note: Sanitation containers shall be removed within 24 hrs after conclusion of event.	Yes	No
Will your event include the use of any signs, banners or decorations? (Please see 'Conditions For Park Use') If yes, please describe type and location: <u>Banners on Free standing Bicycle Carfs.</u>	Yes	No
Note: All signs and banners shall be free standing and not affixed to Park property. Will water be needed during your event? Please provide your own hose and on/off switch. Note: Please request a water coupler key for City Plaza, Children's Playground and Cedar Grove.	Yes	No
Do you request irrigation to be turned off before and during your event?	Yes	No
CITY PLAZA ONLY: Vehicles are not allowed in City Plaza. Loading and unloading must occur from the streets. Meter bags may be obtained from the City by calling (530) 896-7800.		
Will vendors be placed on the perimeter sidewalks? If yes, a Vend, Peddle, Hawk permit must be obtained from the Engineering Division at 411 Main St, Chico, (530) 879-6900.	Yes	No
Will City street closure(s) be needed? A separate permit must be obtained from the Engineering Division at 411 Main Street, Chico, (530) 879-6900.	Yes	No

CHICO BICYCLE MUSIC FESTIVAL



The Chico Bicycle Music Festival (CBMF) is a non-profit event to promote human-scale transportation through the block-rockin' beats of local music, innovation, bicycles and community.

Taking place on June 2nd from 11am till dark the CBMF is the perfect finale to the city's annual BIKE CHICO week, a local campaign promoting bicycling to work, school and play. June 2nd, 2012 will mark the Fourth Chico Bicycle Music Festival.



The Bicycle Music Festival is a collaborative effort of local businesses, green organizations and passionate organizers/volunteers. The BMF is a pedal-powered festival where a bicycle powered generator provides electricity to the performers and the sound system. We will bike parade through the town to three different venues and generate active community engagement, growing festival momentum throughout the day. The entire audience/band/crew packs-up everything they bring (stage and musical equipment too) onto bicycles and travel as a large group to the next festival stop.



This is a free event, open to the public, and for all ages. We are aiming to attract between 150-500 attendees over the course of the day with well-known local performers and a visiting bigger-draw headliner. All bands have been confirmed and are excited to be involved in such a unique experience. Part of the magic of a BMF is that we bring the festival to the people. We can be confident in the attendance because the festival travels throughout the day to places where folks are already hanging out.

We need your support! Your valuable contribution will help jump start groundwork for movement in festival planning by helping us cover important costs. We are looking for

donations between \$100-\$500. CBMF appreciates the support all the Chico Community. **A budget will be attached with this request for sponsorship with in-kind and actual costs.**

Your support goes directly to make Chico a healthier place.

- \$100- your business logo will be mentioned on flyers and website.
- \$250- above mentioned, logo placed in news advertisement.
- \$500- above mentioned, as well as placement on main festival banner and CBMF t-shirt, placement in our window display, and mention in all media outreach. (includes local TV and newspaper).

We appreciate your time, support and effort in making Chico the number one cycling town in California.

For further information please contact:

Samantha Zangrilli

530-591-0198

magicpedalproductions@gmail.com

Chico Bicycle Music Festival

341 Broadway St. Ste. 300 Chico, Ca

95928

chicobicyclemusicfestival.com



CBMF Flickr Account

[http://www.flickr.com/photos/](http://www.flickr.com/photos/53428171@N08/sets/72157624812904422/)

[53428171@N08/sets/72157624812904422/](http://www.flickr.com/photos/53428171@N08/sets/72157624812904422/)

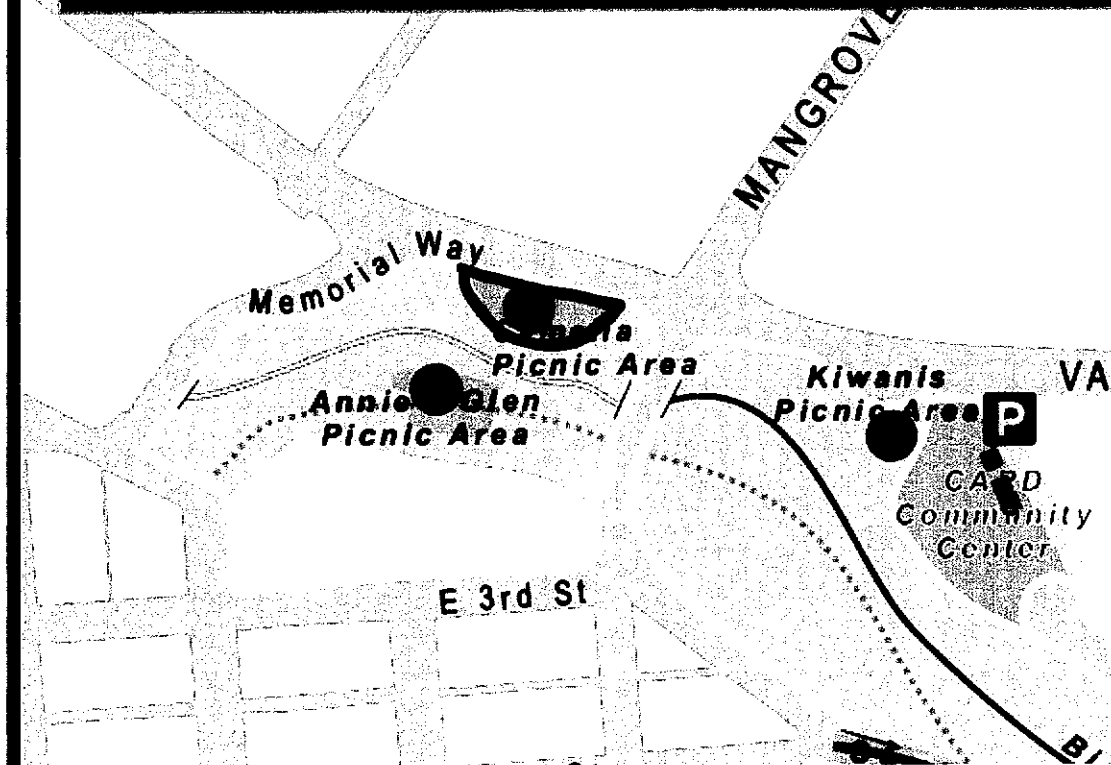
Chico Bicycle Music Festival 2009 on U tube Turning Green series:

<http://www.youtube.com/watch?v=ZuRqkQ1sqnk>

The Chico BMF is under the fiscal umbrella of The Butte Environmental Council, a 501c3 non profit.

EIN: 94-2309829

Lower Bidwell Chico, California



— = Use by CBMF on Saturday June 2nd, 2012
from 11am until 3pm



DATE: 04/11/12
TO: BPPC
FROM: Lise Smith-Peters, Management Analyst
SUBJECT: Design and Construction of an Amphitheater

RECOMMENDATION

Staff recommends BPPC approval of Chico Creek Nature Center's (CCNC) request to proceed with the building of an outdoor seating area to be located between the old and new CCNC buildings.

BACKGROUND

On July 1, 1996 the City of Chico entered into a land lease agreement with the Chico Creek Nature Center, a nonprofit corporation (prior to this, the land was leased to the Altacal Audubon Society for the same purpose). According to the lease, the property shall be used by the Nature Center for the purpose of operating a nature museum and for conducting educational classes and programs on nature and the environment as a benefit for the community. In June 2004, the Bidwell Park and Playground Commission extended the existing CCNC lease to 12/231/27, which was subsequently adopted by the City Council.

In February of 2012, the CCNC was approached by a CSU, Chico senior construction management student, Ryan Jasper, who has proposed building an outdoor seating area (ie. amphitheater) to accommodate educational programming at the Center. In addition, the student plans to integrate Parkview Elementary students, by teaching a short class on concrete and having the students make imprints into the material, which would be incorporated into the seating area when built. (See the attached proposal and diagram).

According to the lease, the Center may not make any additional improvements, nor alter existing improvements on the leased land without having prior consent by the Bidwell Park and Playground Commission.

DISCUSSION

The mission of the Chico Creek Nature Center is *to enhance the quality of all life by promoting understanding, awareness, appreciation, and knowledge of our environment through environmental education in Bidwell Park*. A new outdoor seating area, where community members can take in their surroundings while receiving information about Bidwell Park directly contributes to Center's mission of promoting education, awareness and appreciation of the Park.

Further, the project supports the Facilities Objectives O.F-1 of the BP Master Management Plan:

"reinforce the Chico Creek Nature Center as the primary source of information regarding Bidwell Park through signage and public communication." (p. 3-24). And a primary implementation strategy is I.F-3: "Opportunities to support and work in collaborative relationships to grow and expand the vision for Chico Creek Nature Center outreach and programs should be sought."

Denice Britton, Urban Forest Manager, has evaluated a large valley oak tree and reported that building the concrete seating area will pose no issues for the tree's root structure. However, she is concerned with the tree's structure and has recommended it be cabled within the next year or two.

According to City Senior Planner, Bob Summerville, there are no environmental clearances necessary and he conducted a site review of the new location, which showed no surface level cultural resources. He did propose the project as an opportunity for educational outreach between the Mechoopda Indian Tribe and City field staff. Prior to construction, he recommends that an on-site meeting with Mechoopda members, who can provide information and awareness of Native American resources that may be encountered, and proper respect and handling if found to the City staff and contractors.

The exchange of this information will help fulfill Cultural Resources/Historic Preservation Element of the 2011 General Plan.

City staff supports the collaboration between the City, CCNC, and the CSU, Chico Construction Management Department to implement this project with the following recommendations:

- A building permit is not required for flat work, however, the design needs to include building a 5' x 5' wheelchair space with an accessible path. (Nelson George, Building Official);
- The General Services Director recommended the use of pervious concrete for the outdoor seating area. However, since the area is relatively small, this may allow for ample infiltration).

Attachments: CCNC Letter from Executive Director, CSUC Construction Management Student Ryan Jasper's proposal for an outdoor seating area.



City of Chico
Dan Efseaff
Park and Natural Resource Manager
P.O. Box 3420
Chico, CA 95927-3420

March 27, 2012

Dear Mr. Efseaff:

The Chico Creek Nature Center would like to proceed with the next phase of its development plans for the property located at 1968 E. 8th Street, Chico, CA 95928. The Chico Creek Nature Center (the Nature Center) currently leases the property from the City of Chico to provide informational and educational services about Bidwell Park, to house non-releasable animals for educational purposes for the community, and to maintain the Howard S. Tucker Hall exhibiting the geological and natural history of our area and containing Kristie's Lab.

In February 2012, the Nature Center was approached by Ryan Jasper, a senior student currently enrolled in the Concrete Management program at CSU, Chico. Each semester, students are required to develop and implement a project that would complement as well as showcase the skills they have learned from the program. Additionally, the students are encouraged to seek a project that will add value to and support the general community. After learning that the Nature Center was interested in continuing with the improvements on the property that were initially determined during the planning phase of the new building construction, Ryan decided to take on the project of the outdoor seating area to be utilized for educational programs and speaking engagements.

The Nature Center is focusing on improving its outreach services, information resources and educational programming over the next year. The addition of the outdoor seating area would enhance the staff's ability to utilize the outdoors areas of our grounds to highlight the beauty, wonders and educational components of Bidwell Park. The proposed addition to our site would not require much physical change to our existing property and surroundings. Our proposed location would be between the Live Animal Museum (1968) and the Tucker Exhibit Hall (1970) on the west side of the pathway connecting the two buildings.

Ryan would also integrate students from Parkview Elementary into this project. His idea is to teach a short class on concrete and have the students participate in a concrete stamping project where they would imprint their hands into the material. The stamped concrete would be incorporated into the actual seating area when it is built. Additionally, this project would provide an educational opportunity for city field staff, public contractors and others about the Mechoopda Maidu Indians as the Chico Creek Nature Center is located on or near many of their original sites.

Attached is the proposal to the Nature Center from Ryan Jasper, CSU, Chico Student, and the drawing of the actual seating area. The structure would include on level of seating that would allow for approximately fit 25 youth or 20 adults. The seating area would allow for ADA access.

Most, if not all, of the materials and labor would be donated from local contractors and suppliers. Also included in our attachments is the list of patrons who are affiliated with the Concrete Management Department. Many of them will be in town toward the end of the month and would be very interested to visit the site for the project and learn more about Bidwell Park.

The Chico Creek Nature is extremely excited about the potential of this project. We feel that this would be a great opportunity and partnership between CSU, Chico, the city of Chico and the Chico Creek Nature Center. Should this project move forward, the Nature Center would highlight it and the partnerships.

Please feel free to contact me with any questions, comments or requests for more information. You can reach me by calling 891-4671 or by emailing me at nature@now2000.com.

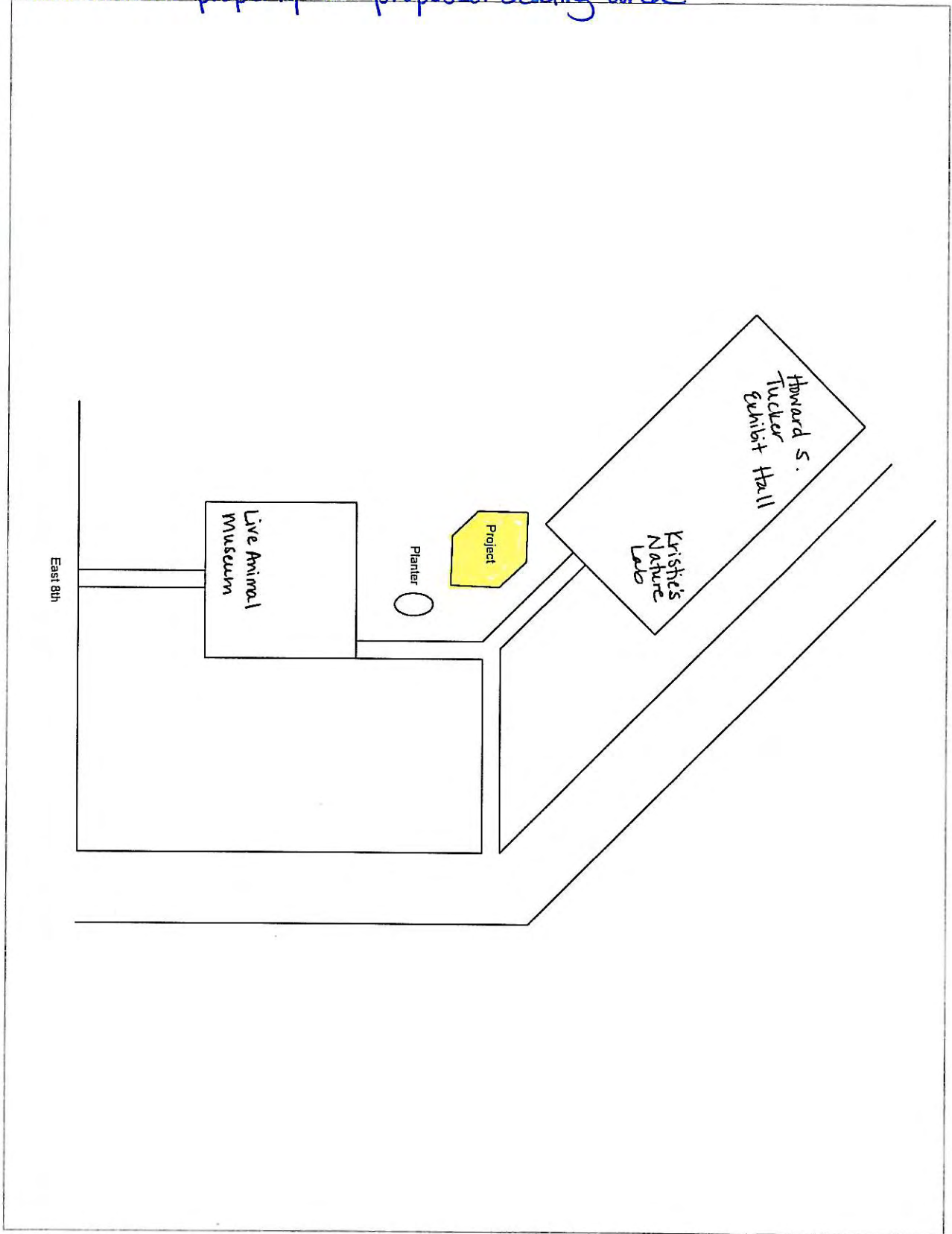
Thank you in advance for your time and consideration.

Sincerely,

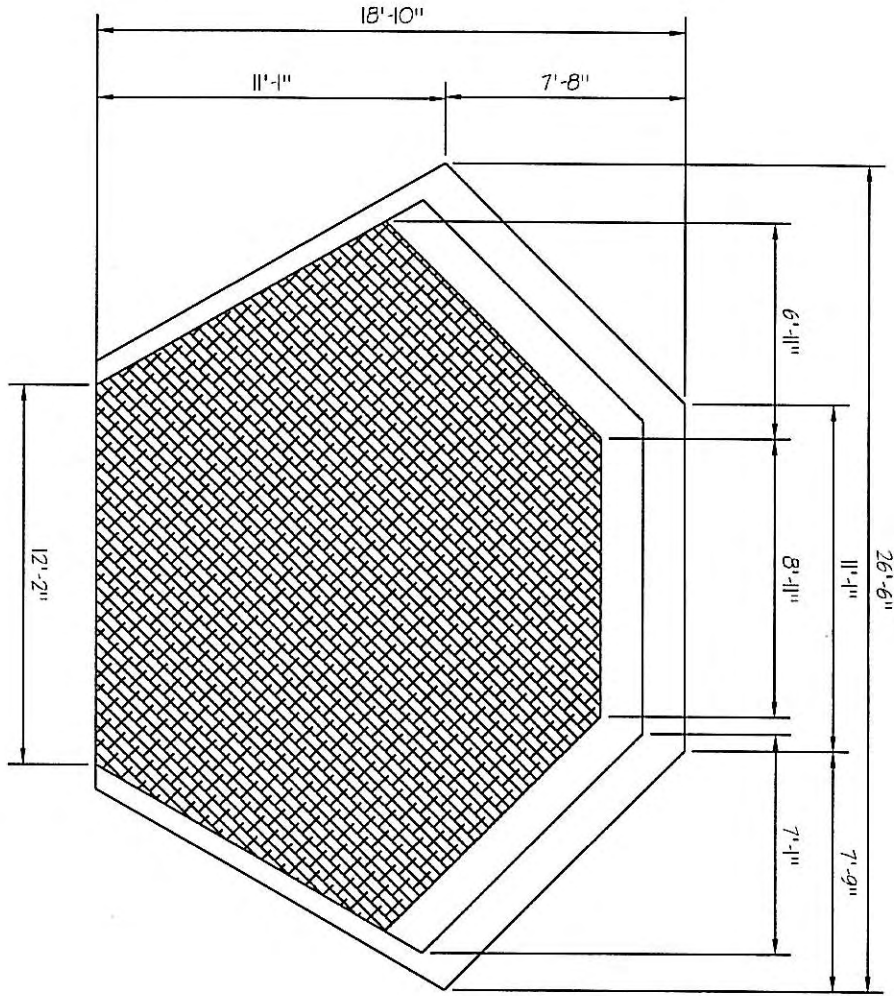


Courtney Farrell
Executive Director

location on property for proposed seating area.



Seating Area Dimensions



המסמך מיועד לשימוש חינוכי בלבד ואינו מהווה תוכנית או תוכנית עבודה.

המסמך מיועד לשימוש חינוכי בלבד ואינו מהווה תוכנית או תוכנית עבודה.

California State University, Chico

California State University, Chico, commonly called "Chico State" is regularly cited by the U.S. News and Work Report as one of the best public comprehensive universities in the western United States, offering more than 150 undergraduate majors and 50 graduate degree program options to 16,00 students.

California State University, Chico holds one of the four Concrete Industry Management programs in the nation. This program was brought together by a joint initiative between CSU, Chico and three other universities from around the nation and leaders from the concrete industry. Within this program, students are taught a wide spectrum of information about cement, concrete and the business side of this multi faceted industry. The major uses real life situational learning to help create the well rounded individuals to become upstanding members in the Concrete Industry of the United States.

EXECUTIVE SUMMARY

THE PARTNERS

➤ **California State University, Chico**

- Leader in IT innovation
- Manages one of just five Concrete Industry Management programs in the U.S.
- Provides hosting services to more than 130 members of the SAP University Alliance
- Leads development of curriculum that is used by faculty throughout the U.S.

➤ **Chico Creek Nature Center**

- Established in the mid seventies
- Purpose: to enhance the quality of all life by promoting understanding awareness, appreciation, and knowledge of our environment through educating the public.
- Big supporter of student education by supporting internships from CSUC and Butte College

THE CHALLENGE

- Provide Structural plans and leadership on the approval process with the city and the Nature Center's Board of Directors.
- Construct the amphitheater to the designed specifications as per the needs and wants of the Nature Center

THE SOLUTION

- Construct a working set of blueprints as per the needs of the Nature Preserve
- Construct the amphitheater per designed specifications to help the Nature Center better teach the public

Chico Creek Nature Center

The Chico Creek Nature Center began in the mid- seventies with a strong passion to educate the community about Bidwell Park. The Nature Center was brought together by a coalition of environmental and recreation groups that offered nature programs and wildlife rehabilitation services. As time went on, the Nature Center switched from solely providing rehabilitation services and started down the path of educating the community about the glorious areas of Bidwell Park.

In 1991, the construction was completed on the facility that houses the wild animals that are non-releasable into nature, giving them a safe and healthy home to flourish and help serve the public through educating people on the local nature. This Structure is in a fitting location of what once was a zoo in the 1950's and later a City of Chico public works refuse area. The building was accomplished with much support from the local community that came together and helped to make this building a reality through public donations of funds and support.

The Nature Center has had a long running partnership with the City of Chico's Park Division of the General Services Department and the Nature Center serves as the official information and education center for the public at large and regional children. The Nature Center has a firm belief in the education of the public and with this has willingly accepted numerous student interns from CSU, Chico and Butte College.

The Challenge

The Chico Creek Nature Center is a public facility that teaches the public about the wildlife and ecological surroundings of the surrounding area. Over time the facilities have grown to accommodate the growing need by adding new buildings to hold displays for all to come see. The Nature Center is wanting to show the public the surrounding environment around the center in an outside setting that is safe and accommodating to the public and to do this the Nature Center would like to have a small outdoor seating area erected in-between the two facilities.

The Chico Creek Nature Center and the Concrete Industry Management program at CSU, Chico are coming together to create an outdoor seating area that will serve the public at their facility. Between the two parties, a specific set of plans will be constructed to fit the needs and all safety regulations set forth by the City of Chico and state of California.

Once a design is set and the project is approved, members of the Concrete Industry Management program will begin constructing the new amphitheater to the design specs. After construction is completed, the surrounding environment will be placed back to its natural undisturbed look.

The Solution

➤ **Planning and Design**

- Design a concrete structure that fits the needs and is compliant with all safety specifications handed down by the state and city.
- Work with the Nature Center through the approval process with their board and the city.

➤ **Construction**

- Lay out the facility in the proper location to best suit the Nature Center's needs.
- Form and pour the Concrete structures outer layer
 - Form structure
 - Pour and finish the structure to desired look
- Form and pour the inner seat of the structure
 - Form and back fill the inner seat
 - Pour and finish the concrete to the desired look and feel
- Form and pour the floor of the amphitheater
 - Form the face of the floor
 - Back fill to desired grade
 - Pour and stamp the concrete too give a rough rock looking surface
- Stain and color the concrete to the desired weathered look
- Clean the site of any foreign debris from the construction process to return the site to the normal look and function.

California State University, Chico - Concrete Industry Management

Corporate Patron	Company	email	Status
Douglas K. Guerrero	CEMEX	dkguerrero@aol.com	Chairman
Brent Baty	CEMEX	brent.baty@cemexusa.com	Board Member
Dana Davis	Teichert Materials	ddavis@teichert.com	Vice Chairman
Thomas R. Tietz	CNCPC	tom.tietz@cncpc.org	Secretary
Donald E. Humphrey, Jr.	Central Precast Concrete, Inc.	Dhumphrey@us-concrete.com	Treasurer
Joe Bean	Teichert Materials		
Gene Ceccotti	Shamrock Materials, Inc.		Board Member
Jim Hill	Western Ready Mix Concrete, Inc.		Board Member
Jim Hill	Valley Rock Products, LLC		see above
Steve Gonsalves	Conco Companies		Board Member
Jim Klinger	Conco Companies		
Bill Albanese	Central Concrete Supply Co.		Board Member
Gene Martineau	US Concrete		Board Member
Michael Harlan	US Concrete		
Joe Sells	Nevada Cement Company		Board Member
Rick Quinn	Nevada Cement Company		
Jim Brown	Lehigh Northwest Cement Ltd.		
Bill Boughton	Lehigh Southwest Cement Co.		Board Member
Brian Serra	Standard Concrete Products		
Burt Gilpin	Calaveras Materials, Inc.		
Rob Wallace	CPCNC		Board Member
Ron Summers	California Portland Cement		Board Member
Ed Owens	California Portland Cement		
Jim Repman	California Portland Cement		

Alan Wessel	Vulcan Materials		
Stephan Buol	Triangle Rock (Vulcan)		Board Member
Jeff Krupcale	Propex Concrete Systems		Board Member
Hal Payne	Propex Concrete Systems		
Terek Kahn	BASF Admixtures, Inc		Board Member
Mike Shydowski	BASF Admixtures, Inc		
Greg Diehl	Granite Rock Company		Board Member
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CVC Construction			
Dave Filipek	Right Away Redy Mix		
Mark E. Mulcahy	The Quikrete Companies		
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David W. Carter	Utility Vault (Oldcastle Precast)		

Individual Patrons

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Individual Patron	
Indivivual Patron	
Bill Albanese	
John Halverson	
Doug & Kelly Guerrero	
Don Humphrey, Jr.	
Allen & Carla Law	
Tom Albanese	
Terek Kahn	
Jim & Leslie Repman	
Eugene & Nancy Martineau	
Michael & Marsha Shydowski	
Eugene B. Ceccotti	
Don & Lynn Kahler	
David H. Filipek	
Dana & Jerri Davis	



GENERAL SERVICES DEPARTMENT

965 Fir Street
P.O. Box 3420
Chico, CA 95927-3420

(530) 896-7800 or (530) 894-4200
(530) 895-4731 FAX
<http://www.ci.chico.ca.us>

April 24, 2012

MEMORANDUM

TO: Dan Efseaff, Parks and Natural Resources Manager, City of Chico
Courtney Farrell, Executive Director, Chico Nature Center

FROM: Denice Britton, Urban Forest Manager

RE: 40" valley oak (*Quercus lobata*) between the two buildings at the Nature Center

This tree is set back to the west of the buildings and adjacent to the proposed amphitheatre.

This tree shows good vigor, with few dead limbs in the canopy. It was pruned in 2008 prior to the construction of the new classroom building.

The impact of the amphitheatre to the tree will be minimal if constructed as discussed. The foundations for the theatre seating would not require extensive excavation; it will be constructed mostly on the surface, with only about a 6" cut into the native grade. A tree protection fence should be placed about 3' beyond the amphitheatre footprint to prevent any workers or storage of materials from impacting the root zone of the tree during construction. Another option is to place the fence closer, but be certain that at least 4" of chip mulch is on the soil surface where workers will be walking back and forth.

There is a significant structural issue with the tree. It has two main trunks of equal size that have bark included between them. This creates a weak attachment. When such an attachment begins to crack or the edges of the stem begin to push against each other, they will often form ridges of new callus tissue along line of the crack. This creates a bulge at the attachment, a clear sign that the internal cracks are perpetuating outward. The ridges on this tree exceed 6" on each side of the attachment.

The tree needs to be bolted and cabled or at the very least, cabled to reduce the extension of the limbs outward and the chances of failure at the main attachment. Should the trunk fail, both buildings would likely be damaged.

There is no reason to remove the tree. However, I consider the cabling to be essential. It should be scheduled within the next 1 to 2 years.



DATE: 4/24/12
TO: Bidwell Park and Playground Commission (BPPC)
FROM: Dan Efseaff, Park and Natural Resource Manager
SUBJECT: 6.1 Special Report: Draft 2011 Year End Monitoring Report for the Peregrine Point Disc Golf Long Course

Report in Brief

Under direction from the BPPC and City Council, Staff has been directed to work with Outdoor Recreation Advocacy, Inc. (ORAI) toward the construction of a disc golf long course and installation of mitigation measures at Peregrine Point. ORAI began work on September 1, 2010, and the course opened in February 2012. We anticipate, as per the adaptive management model adopted for the project, additional work and changes will be required over time. Staff will present a draft monitoring report that summarizes progress in 2011 and seeks feedback on the report and approach on future efforts.

Attachments: Draft 2011 Year End Monitoring Report for the Peregrine Point Disc Golf Course.

- DRAFT-

2011 Year End Monitoring Report for the Peregrine Point Disc Golf Course

Upper Bidwell Park, Chico, California

April 23, 2012



Prepared for:

Outdoor Recreation Advocacy, Inc. (ORAI)
City of Chico



City of Chico

General Services Department – Parks Division

965 Fir Street
Chico, CA 95927

Phone: 530-896-7800
Fax: 530-895-4731

www.chico.ca.us

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Appendix A –Revised (As Of 4/11/12) Summary Of Mitigation And Monitoring Measures For The Bidwell Park Peregrine Point Disc Golf/Trailhead Area.

Appendix B – ORAI Annual Report

Appendix C – Peregrine Point Photos

Appendix D – [NSR]. North State Resources. 2011. Peregrine Point Disc Golf Course Botanical Monitoring. NSR No. 51325. Chico, CA.

Appendix E – Foothill Associates. 2012. Upper Bidwell Park Peregrine Point Disc Golf Course Baseline (Year 1) Oak Tree Monitoring and Assessment Report. March 15, 2012. Chico, CA.

Appendix F – Statistical Analysis

Suggested citation:

City of Chico. 2012. 2011 Year End Monitoring Report for the Peregrine Point Disc Golf Course. Chico, California. Draft. April 23, 2012. General Services Department, Parks Division. Chico, California.

I. INTRODUCTION

The Bidwell Park and Playground Commission (BPPC) and Chico City Council have directed Staff to work with Outdoor Recreation Advocacy, Inc. (ORAI) toward the construction of a disc golf long course and installation of mitigation measures at the Peregrine Point Trailhead Area. The course is located in Upper Bidwell Park off of Highway 32.

ORAI began course development on September 1, 2010. Pursuant to the adaptive management model integrated into the mitigation concept adopted for the project, additional work and course changes will be required over time. The cornerstone of a successful adaptive management approach is a comprehensive monitoring program.

To help implement the disc golf course development, operation, and ongoing mitigation proceed under an operating agreement developed between the City of Chico and ORAI. The agreement specifies implementation of approximately 79 mitigation measures (Exhibit B in the Operating Agreement) that were identified as part of the environmental review for the Bidwell Park Master Management Plan (BPMMP) (EDAW, 2009). As part of the project, the City of Chico developed a monitoring plan for the site (City of Chico, 2011).

The goal of the monitoring plan is to provide a framework from which ORAI and the City can begin monitoring the project. The framework will help define the extent and nature of monitoring. ORAI will pay for up to \$5,000 annually toward completion of monitoring costs, and will complete maintenance and repairs to the course as needed. ORAI will also communicate issues regarding course repairs or resource impacts to the City. The City or a consultant hired by the City will collect data and provide annual reports on the project. The City will invoice ORAI for monitoring work. Annual reports will be submitted to the BPPC and made available to the public.

This monitoring plan articulates the adaptive management approach, and outlines the monitoring approach and framework for evaluation for the ongoing operation of the Peregrine Point Disc Golf Course. Monitoring provides the basis for assessing impacts associated with implementation and operation of the project. Several corrective actions are outlined in the agreement, if they become necessary. Additional corrective actions could be developed if monitoring suggests they are necessary. This document lays out the plan and process for monitoring, the results, findings, and status of the mitigation measures will be documented as part of future monitoring reports.

This monitoring plan provides an adaptive management framework for initial data collection at the site. The focus of the document is on the monitoring identified in the mitigation measures developed for the site, but it also provides guidance as to communication and the process for considering changes on the implementation or monitoring of the project.

Key functions of the end of season report are to:

- Communicate implementation activities,

- Review monitoring results and project activities,
- Document the completion of project milestones,
- Point out salient monitoring results,
- Evaluate the effectiveness of monitoring activities and identify data gaps that require additional action or consideration.
- Identify potential challenges or objectives for the upcoming year, and
- Recommend specific actions (adaptive management recommendations) on any aspect of the program for the following year.

This step completes the general adaptive management model illustrated earlier (see **Figure 3**), and may include copies of related monitoring reports or products. This report, at the end of the monitoring cycle, will help place the various monitoring efforts into a larger context. Based on the findings of the monitoring, modification to this program or the need to continue it should be considered after the 5th year.

As part of the adaptive management approach, we anticipate that this document will evolve over time as understanding of the site becomes more refined. Data collection frequencies, intensity, and protocols may change and future updates will reflect those changes.

A. Monitoring Requirements

This program proposes a series of monitoring efforts to match the requirements of the mitigation measures for the site according to the BPMMP and to also aid in the general management of the project.

The current status of all proposed mitigation measures (as of 4/11/12) is provided in Appendix A, and a summary in Table 1. While 77 mitigation measures were devised, 14 are the focus of this Monitoring Report (Table 2). Other measures, such as those marked as completed or “completed, on-going monitoring required,” were subject to observations during site inspections.

Table 1. Tally of the Status of Mitigation And Monitoring Measures for the Peregrine Point Disc Golf Course (4/11/12).

Mitigation	Total	Not Applicable	Completed	In Progress	To Be Determined	Not Completed
Air Quality	11	4	7	-	-	-
Biological Resources	52	13	17 ^a	16	6	-
Cultural Resources	9	4	5	-	-	-
Hydrology	1	1	-	-	-	-
Noise	3	-	3	-	-	-
Traffic	1	-	-	-	1	-
Total	77	22	23	16	7	

^a Tasks noted as completed may be split into ones that were required during construction and no further action is needed and ones they must have on-going monitoring to make sure that they are completed (for example, signs are completed on site, but must be monitored to make sure that they are replaced if they are removed. Nine items are completed but require on-going compliance monitoring.

B. Sampling Area

Monitoring efforts are connected to the installation and maintenance of the long course. The sampling area is within the Peregrine Point Disc Golf course as defined in Figure 1. Other areas of the site are beyond the scope of this monitoring. Fairway areas were developed geometrically using GIS techniques, with assumptions made about the range of disc throws and angles. The shape was modified based on the position of trees (open sites tend to have wide fairways and ones with a lot of trees, narrow). This approach provides a reasonable approximation of fairway locations and where most of the play may occur.

C. Adaptive Management Framework

The monitoring plan (City of Chico, 2011) outlines an adaptive management framework that guides this project and should be referred to for details. Alterations to the monitoring protocol or changes are captured in later sections.

Table 1. Summary of Mitigation Measures Related to Long-Term Monitoring.

Topic	Mitigation #	Description/Goal	Trigger	Remedy
Butte County Checkbloom	BIO-1b-f	Adopt an Adaptive Management program to document changes over time.	Start of project.	Role and adaptive management program developed in this document.
	BIO-1b-g	Long term maintenance of the same number and approximate extent of Butte County Checkerbloom as the 2005 survey.	Data indicates a decline in existing populations after implementation.	Relocation of trails or disc golf structures.
Bidwell's knotweed	BIO-1d-a	Use a habitat approach to minimize impacts on wildflower fields.	High fluctuation in annual population makes tracking difficult.	Minimize impacts to wildflower fields.
	BIO-1d-e BIO-1d-f (remedy)	Document and monitor changes in existing population.	Monitor annually. Decline in number or extent of existing populations.	Implement Plant Objective O.P-7 and Plant implementation strategies and guidelines I.P-3 and I.P-4 of the BPMMP. Relocation of trails or disc golf structures in vicinity of populations or other management strategies to benefit the plant.
Oak Woodland	BIO-3c-b	Decommission trails in oak woodlands that are part of a site-specific Park Improvement project.	Monitor annually	Reclaim using barriers. Decommission unused trails, identify needs annually.
	BIO-3c-i	Protect tree trunks without damage to the root zone and preserves visual character of the site.	Monitor annually	Consider protection measures, such as shielding poles.
	BIO-3c-j	Minimize soil compaction around tee pads and on trails under oak driplines.	Monitor annually	Apply 6 inch layer of woodchip mulch to a 20' radius around the tees and on the trails.
	BIO-3c-k	Determine if any unavoidable impacts are occurring as a result of site use.	Twice annually	Replant oak woodland habitat in suitable areas (l) according to conditions outlined in BIO-3c: l, m, n, o, p for a period of 5 years.
Wildflower Fields	BIO-3d-f	Reclaim existing trails not retained as part of site-specific Park Improvement Projects.	Monitor annually	Reclaim using barriers to discourage use. Reseeding may be considered over time.
Signage	BIO-1b-d BIO-1d-b BIO-3c-h BIO-3d-g	Maintain permanent signage to inform users of the presence and sensitivity of 1) Butte County Checkerbloom, 2) Bidwell's knotweed and wildflower field, 3) value of native oak trees and woodland, and 4) presence and sensitivity of the wildflower field community, discourage off trail use.	Monitor annually	Repair or replace signs.

Figure 1. Peregrine Point Disc Golf Course (Long Course) (City of Chico, 2011).



II. SUMMARY OF RESULTS

This monitoring report is based on the following reports related to monitoring at the site:

- Wildflower and survey (North State Resources, 2011)
- Blue oak monitoring (Foothill Associates 2011 and 2012)
- Site evaluation and ranger observations (City of Chico),
- Annual report (ORAI, 2011).

A. ORAI Annual Report

ORAI provided a brief report (Appendix B) summarizing activities at the course including volunteer efforts and costs associated with payment for site studies. ORAI reported the following participant numbers for tournaments (they estimated a small number of observers (0-3) at each event, but did not track those numbers).

Table 2. 2011 ORAI Tournament Participation.

Date	# Participants
5/21/2011	24
7/16/2011	23
8/20/2011	15
9/17/2011	16
10/22/2011	10
10/29/2011	15
Total	103

B. Site Evaluation and Photo Point Monitoring

The intent of the Site Evaluation is for Staff to assess the compliance with mitigations and observe any improvements or areas of concern (Chico 2011). Throughout the year some observations were shared and remedies developed with ORAI. For example, notification of trail cutting resulted in the alignment of rocks along trails or branches placed on the ground. Based on those observations, an updated status of mitigation measures are included in Appendix A. Note that this list does not include the more detailed descriptions of activities during the construction phase and the reader is referred to the 2011 Monitoring Plan (City of Chico 2011) for more details. The catalogue of photos from Spring and Fall are presented in Appendix C.

C. Butte County Checkerbloom and Bidwell's Knotweed, and Wildflower Field Surveys

In Spring 2011, North State Resource conducted survey's to document the extent and distribution of Butte County Checkerbloom and Bidwell's Knotweed (NSR 2011). The City of Chico also arranged for surveys in 2010 and a survey was collected under the new monitoring plan in 2011.

Examination of the data collection in 2010 and 2011 with the 2005 surveys yields some cautions, namely the following:

- The 2005 methods for counting Butte County Checkerbloom are unclear how they handled “patches” versus individuals.
- Weather conditions can have a dramatic impact on annual wildflowers and Bidwell’s knotweed.

Table 3 provides a template for how the data will be presented for future comparisons (i.e. 2011 and 2012) (Note: Staff is working on how to compare the 2005 and 2010 data into this format. If feasible the table will be filled in for the final version).

Table 3. Comparison of Key Data from Botanical Monitoring.

Resource	Variable	2005	2010	2011	Trend
Bidwell's Knotweed	# Patches				
	Area (ft ²)				_____
Wildflower Fields	# Patches				
	Area (ft ²)				_____
Butte County Checkerbloom	# Occurrences				
	# Stems				

D. Blue Oak Woodlands

1. Transect Sampling

An interrupted belt transect (4 permanent 25 m x 4m quadrats) were established on site (Foothill 2012). A total of 9 trees were collected. The data provides a long term view of changes on the site and can provide density information.

2. Examination of GIS Analysis of Blue Oak Woodland

The monitoring plan (2011) notes that this method is related to long-term monitoring and will be utilized over 5-10 years. Other than developing the base maps (based on 2009 aerial photography), no progress was made. This will likely be examined, when the next set of aerial photographs become available.

3. Assessment of Blue Oaks within Course Boundaries

Foothill Associates (2012) collected data related to priority 1 trees on the course. The intent of the Priority 1 trees was to provide a year to year comparison. However, Staff recommended, that a comparison between Priority 1 trees and reference trees would

provide a more immediate comparison on the site. ORAI agreed to modify the scope of work to include the reference trees so that we would have data collected in this first year, and possibly be able to detect trends on a more expedited manner than the year to year comparison between paired observations of Priority 1 plants.

Foothill (2012) provides summary data (distribution in classes) and the data for individual trees. Staff also completed some basic statistical analyses using ANOVA techniques (Appendix F). These are summarized in Table 4.

Table 4. Comparison of Priority 1 and Reference Trees Using ANOVA Based on 2011 Observations (Foothill 2012).

Variable	Reference Tree (n = 44)		Tree Priority 1 Tree (n = 39)		Statistically Different (p-value)
	Ave	Std Dev	Ave	Std Dev	
Diameter at Breast Height (DBH) (ft)	9.705	4.583	10.333	4.911	No (p = 0.55)
Tree Height (ft)	18.500	4.506	20.821	5.977	Yes (p < 0.05)
Trunk Quad Impacts (#)	0.34	0.645	1.69	0.77	Yes (p<0.001)
Damaged Bark Patches (#)	0.11	0.32	0.59	0.75	Yes (p<0.001)
Tree Condition (#)	3.23	0.57	3.33	0.53	No (p=0.38)
Dead Canopy (%)	17.82	11.83	16.18	9.86	No (p=0.50)
Broken Branches (#)	2.78	2.82	2.69	2.26	No (p=0.89)
Crown Width (ft)	17.7	6.30	18.92	7.38	No (p=0.42)

We observed convincing statistical significant differences with Trunk Quad Impacts and Damaged Bark Patches. Damaged Bark Patches simply reflect a count of the number of observed discrete areas on the tree with evidence of damage to the bark, while Trunk Quad Impacts denoted the number of quadrants (0-4) that the damage occurred. One drawback to this approach was that if a quad was counted whether it had 1 or many impacts. We should note that the damaged bark patches were areas without live cambium and did not include ones that were damaged (Personal communication, Foothill 2012). Many of these may be related to past fire damage (Personal communication, Foothill 2012). We did not quantify the size of the damaged bark patches.

Course observations indicate that disc impacts are evident on several trees especially close to holes. Time and further monitoring will indicate whether these impacts have long term detrimental effects, but given the relatively harsh nature of the site, damage to trees may cause a rapid decline if it is combined with other stressors. In other words, the trees may be able to accommodate the damaged bark under normal circumstances, but the combination of damaged bark and drought, for example, may make the trees more susceptible to bark beetles or pathogens.

There was moderate evidence in the difference associated with tree height between Reference and Priority 1 trees. While unexplained differences may occur by chance; we suspect that this association is related to the bias in the course design. In other words, the course avoided heavily treed areas and our Priority 1 trees were selected

based upon an assessment that they would be more exposed to discs. Presumably, the more open areas corresponded to less competition and room to grow taller. Competition with other trees may explain the lessened tree height among Reference trees and Priority 1 trees. This does not indicate any cause an effect related to disc golf play, and like the other variables, just another that should be evaluated over time.

E. Data Handling and Storage

The City will receive electronic and hard copies of all reports and field data sheets and will serve as the repository for monitoring reports. The reports will contain summary information and findings. Final monitoring or annual reports will be forwarded to BPPC members as part of reports on the project, and will be available to the public. The reports will also be made available through the City of Chico website (<http://www.chico.ca.us/>). Project derived GIS layers will be submitted to the City's GIS department (and stored at CSU Chico's Geographical Information Center). Any copies of data sheets will also be submitted to the City.

F. Summary of Data Collection Methods

A summary of the methods (Table 2) and a timeline (Table 3) is provided below.

III. DISCUSSION AND EVALUATION OF DATA

A. Identification of Data Gaps

- Damage from impacts was evident on many of the priority 1 trees across the course. In general, impacts to bark and cambium cause additional stress on the trees (to repair), potentially provide a portal for pathogens or insects, and make the trees more susceptible to mortality from other events (i.e drought stress mortality). What the effect of such impacts and blue oak mortality on site is uncertain, but the challenges for blue oak growth on site strongly suggest the need for protective strategies or measures.
- The data for the reference oaks were collected in fall, meaning that this year's plant vigor estimates may not be comparable (since it relies considerably on leaf health).
- Many of the measurement variables were set up for year to year or trends over time and the limited data collected so far do not provide much in the way of trend analysis.

IV. FOLLOW-UP RECOMMENDATIONS

A. Findings and Course Improvements

A number of course improvements will be explored with ORAI in 2012, these include:

- Install a City of Chico sign that outlines basic rules, etiquette, park rules, and stewardship. The sign would also include a statement about the role of the Chico Outsiders in maintaining the course and donations to pay for the maintenance.

- Install a barrier or chain across the tee pad for Hole 1 that would be used when the course is closed for wet-weather.
- Although many plants can struggle on the challenging soil conditions on the site, the photo monitoring (Photo point PP 2.9 indicates a young grey pine sapling that appeared to have grown more than 6 inches between photos), suggesting that under the right conditions, these plants can grow quickly. We would like to explore the potential of planting grey pine as a screen to protect either wildflower areas (to the left of the pad on Hole 14) or to protect blue oak from disc impacts.
- Although many of the trails between holes and the next tee pad appear to be defined, some of the pathways on fairways will need to be examined and refined.
 - The exception on trails between holes is between Hole 15 and 17 with many users not using the developed path. Staff will be working with ORAI in 2012 to look at alternatives.
 - Pathways (especially the first third or so on fairways) will be reviewed with ORAI with the goal of reducing the number and width of trails.
 - Staff and ORAI will examine options to keep water off of a path that has developed along the hillside on Hole 4.
 - The snake rail fencing on the course appears to be functioning well in narrowing trails and keeping users off out of bounds/sensitive areas, and has become less intrusive as it has weathered.
- Identify the trees appear to be the most susceptible to disc impacts and explore alternative trunk protection methods.
- Compliance with wet weather (conditions) closures continues to be of concern. With the revised wet weather protocol and improvements to getting the word out, we anticipate enhanced education and enforcement efforts for all of Upper Park including Peregrine Point for next winter 2012-2013.

B. Alterations to the Next Monitoring Plan or Report

The following should be added to the next management plan:

- Use an abbreviated list of mitigations, including only those items that are in progress or completed items that need on-going compliance monitoring. Items that have been completed or are not applicable, for example mitigations related to the construction phase no longer apply and have been amply documented. However, some items will remain as they provide overall guidance for the site
- Document photo point locations and Priority 1 and reference tree locations.
- Reference trees were added to the data collection to provide a comparison between trees within disc golf fairways and in the same general area (on the course) but likely minimally impacted by disc golf play.
- Multi-stemmed trees will be given a letter designation and DBH recorded and treated as an individual tree. The other variables measured for that tree will be the same, introducing some potential “double counting” in average estimates. Given that the numbers are small (and no reason to think that reference trees and Priority 1 trees are different, we do not expect significant issues, but the data analysis should proceed with this in mind.

- Consider documenting observations on effects of “pruning” back of branches on tree structure.
- In addition to the “damaged cambium” or “number of damaged quads” count the number of impacts.
- Complete area comparison between data collected in 2005 and current data (Table 3).

V. SUMMARY

This represents the first monitoring report for the Peregrine Point Disc Golf Course. As part of the adaptive management approach, we will update the Monitoring Report based on recommendations in this report and complete course improvements.

VI. REFERENCES

- Chico Environmental Science and Planning. 2009. Interim Adaptive Wet Weather Management Plan. Prepared for the General Services Department, City of Chico Parks and Open Space Division. December 2009. Chico, CA.
- City of Chico. 2011. Monitoring Plan for the Peregrine Point Disc Golf Course. Chico, California. Revised Draft. May 2011. General Services Department, Parks Division. Chico, California.
- EDAW. 2008. Final Bidwell Park Master Management Plan Update (BPMMP). Prepared for the City of Chico. Sacramento, CA.
- Foothill Associates. 2012. Upper Bidwell Park Peregrine Point Disc Golf Course Baseline (Year 1) Oak Tree Monitoring and Assessment Report. March 15, 2012. Chico, CA.
- Stuart, K. 2002. Survey for Special-status Botanical Species for the City of Chico's Bidwell Park Trails Project. Prepared for the City of Chico, Parks Department. Chico, CA
- [NSR]. North State Resources. 2011. Peregrine Point Disc Golf Course Botanical Monitoring. NSR No. 51325. Chico, CA.
- Herrick, JE and TL Jones. 2002. A Dynamic Cone Penetrometer For Measuring Soil Penetration Resistance. Soil Sci. Soc. Am. J. 66:1320–1324 (2002).

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Appendix A –Revised (As Of 4/11/12) Summary Of Mitigation And Monitoring Measures For The Bidwell Park Peregrine Point Disc Golf/Trailhead Area.

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**Revised (As Of 4/11/12) Summary Of Mitigation And Monitoring Measures For The Bidwell Park Peregrine Point Disc Golf/Trailhead Area
(Exhibit B Of Agreement).**

Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
AIR QUALITY	See Below	See Below	See Below	See Below	See Below
<p>Mitigation Measure AQ-2: Control Short-term Construction Emissions</p> <p>Consistent with BCAQMD guidelines, the following measures shall be implemented to reduce potentially significant effects on air quality resulting from construction related to the Disc Golf/Trailhead Area Concept Plan Project:</p>	OPERATOR / CITY	OPERATOR/ CITY	During construction activities	Monitor weekly during construction	See Below
a. Alternatives to open burning of vegetative material removed from a project site shall be used unless otherwise deemed infeasible by the AQMD. Among suitable alternatives are chipping, mulching, or conversion to biomass fuel;	N/A	N/A	During construction activities	Monitor weekly during construction	Not Applicable. No further action required.
b. Adequate and applicable dust control measures (identified in detail below) shall be implemented during all phases of project development and construction as outlined below:	OPERATOR	OPERATOR	During construction activities	Monitor weekly during construction	Completed. No further action required. As of 11/2/10, all access road areas were covered with native grass straw or planted with native grass seed.
1. All active construction sites shall be watered at least twice daily. Frequency should be based on the type of operation, soil, and wind exposure.	OPERATOR	OPERATOR	During construction activities – primarily where vehicles are being used	Implement daily; monitor weekly during construction.	Not applicable. No further action required.
2. Chemical soil stabilizers shall be applied to inactive construction areas (disturbed lands within construction projects that are unused for at least four consecutive days).	OPERATOR	OPERATOR	Will review on a case by case basis – may not be needed for small sites	Implement as needed, monitor weekly during construction	Not applicable. No further action required.
3. On-site vehicles speeds shall be limited to a speed of 15 mph on unpaved roads.	OPERATOR	OPERATOR	During construction activities	Implement daily; monitor weekly during construction	Completed. Measure may be useful for any future on-site maintenance activities.
4. Land clearing, grading, earth moving or excavation activities shall be suspended when winds exceed 20 miles per hour.	OPERATOR	OPERATOR	During construction activities	Implement and monitor as needed	Completed. No further action required.
5. Non-toxic binders (e.g., latex acrylic copolymer) shall be applied to exposed areas after cut and fill operations and the area shall be hydroseeded.	OPERATOR	OPERATOR	During construction activities	Monitor weekly during construction	Not applicable. No further action required.

**Revised (As Of 4/11/12) Summary Of Mitigation And Monitoring Measures For The Bidwell Park Peregrine Point Disc Golf/Trailhead Area
(Exhibit B Of Agreement).**

Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
6. Vegetative ground cover shall be planted in disturbed areas as soon as possible after disturbance.	OPERATOR	OPERATOR	During construction activities	Implement and monitor one time after construction	Completed. Given site conditions, this measure was the most appropriate of the air quality mitigations provided. As of 11/2/10, all areas cleared for construction were covered with either wood chip or native grass mulch and/or planted with native grass seed. Compliance with this measure would be required for any future maintenance.
7. Inactive storage piles shall be covered.	OPERATOR	OPERATOR	During construction activities	Monitor weekly during construction	Completed. No further action required.
8. Paved streets adjacent to each project site shall be swept or washed at the end of each day as necessary to remove excessive accumulations of silt and/or mud which may have accumulated as a result of activities on the project site.	OPERATOR	OPERATOR	During construction activities	Implement daily; monitor weekly during construction	Completed. No further action required.
9. A publicly visible sign shall be posted with the telephone number and person to contact regarding dust complaints. This person shall respond and take corrective action within 24 hours if a complaint is received. The telephone number of the BCAQMD shall also be visible to ensure compliance with BCAQMD Rule 201 & 207 (Nuisance and Fugitive Dust Emissions).	OPERATOR	OPERATOR/ CITY	During construction activities	Monitor weekly during construction	Completed. No further action required.
BIOLOGY	See Below	See Below	See Below	See Below	See Below
Mitigation Measure BIO-1b: Implement Measures to Protect Butte County Checkerbloom in the Disc Golf/Trailhead Concept Plan Area The following measures shall be implemented to mitigate potential direct and indirect effects on populations of Butte County checkerbloom from implementation of the Disc Golf/Trailhead Area Concept Plan:	OPERATOR / CITY	OPERATOR/ CITY	Before ground-disturbing activities and during ongoing operation	See Below	See Below
a. As provided in Appendix H of the BPMMP, the Disc Golf/Trailhead Area Concept Plan shall be implemented to avoid direct and indirect impacts on known locations of Butte County checkerbloom on the site. All disc golf structures (e.g., tees, targets, fairways) and trails shall be	OPERATOR	N/A	During construction activities, and ongoing monitoring.	Implement during construction; monitor monthly	In progress. The course alignment addresses many of these issues. However, two course features (existing trails), falls within 25 feet of checkerbloom plants, and it may not be possible to move the trail (users may ignore reroute efforts in those areas). For example, an existing

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(Exhibit B Of Agreement).**

Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
placed a minimum of 50 feet from locations that currently support Butte County checkerbloom wherever possible. Where this cannot be accomplished due to physical site constraints, the buffer may be reduced, but shall remain at a minimum of 25 feet.					trail near Hole 14, comes within 25 feet of a checkerbloom plant (the plant was discovered after the 2005 survey). A trail reroute will put users onto a wildflower field area and create a large loop. Users would likely "cut-off" this loop. Snake rail fencing has been placed in this area to clearly define the trail, and keep users away from the sensitive area.
b. Before construction of any facility at the Disc Golf/ Trailhead area in the vicinity of known locations of Butte County checkerbloom, exclusionary fencing shall be installed along a 25-foot buffer around the outer perimeter of the occurrence. Exclusionary fencing shall be installed under the guidance of a qualified botanist before commencement of construction to keep workers and equipment from disturbing existing Butte County checkerbloom plants. The fencing shall be kept in place and periodically inspected and repaired, if necessary, for the duration of construction.	OPERATOR	OPERATOR	During construction activities, and on-going monitoring.	Implement prior to construction; monitor monthly during construction.	Completed. Requires on-going monitoring.
c. The Disc Golf/Trailhead Area Concept Plan shall restrict foot traffic to clearly defined trails and disc golf features. Trails shall be constructed as narrow as possible to avoid degradation of suitable habitat for Butte County checkerbloom (and other special status plant species). Where existing disc golf structures and trails in the vicinity of existing locations of Butte County checkerbloom will be decommissioned, barriers (such as boulders) shall be placed to discourage use of these trails and structures.	OPERATOR with qualified botanist	OPERATOR	During construction activities and on-going.	Implement during construction; monitor monthly during construction	Completed. Requires on-going monitoring. Construction phase completed. Maintenance phase in progress. Staff anticipates on-going work with Operator to define trails (with snake rail fencing, rock lining of paths, and potentially plantings) to protect resources and narrow trails, and to decommission trails. The trails for the Trailhead Concept plan have not been delineated.
d. Permanent signage at the trailhead/rest area shall be installed to inform Park users of the presence and sensitivity of Butte County checkerbloom (and other sensitive resources) on the site.	OPERATOR	OPERATOR	On-going.	Install after construction; monitor signage annually.	Completed. Requires on-going monitoring. and upkeep of signs.
e. As provided in Appendix H of the BPMMP, alternate pin locations for Holes 3 and 4 of the long course shall be used from March 1	OPERATOR	OPERATOR/ CITY	During and after (seasonally) construction.	Implement and monitor annually	Construction phase completed. Requires on-going monitoring of seasonal pad changes and use. Alternative pin installation complete for

**Revised (As Of 4/11/12) Summary Of Mitigation And Monitoring Measures For The Bidwell Park Peregrine Point Disc Golf/Trailhead Area
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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
through July 1 to provide further assurance that potential disturbance of nearby checkerbloom plants during the active growth and blooming period of the plants is minimized.					Holes 3 and 4. Only the winter fairway is installed and used as the all season fairway for Hole 13.
f. Per Plant Objective O. P-8 of the BPMMP, an adaptive management program shall be implemented that relies on periodic data collection on the distribution of Butte County checkerbloom at the Disc Golf/ Trailhead site. The goal of this adaptive management program shall be to document and monitor changes in the existing population of Butte County checkerbloom over time. The adaptive management plan is intended to address the fact that, notwithstanding the buffers and signage, the CITY cannot guarantee that the use of the park will not disturb Butte County checkerbloom.	OPERATOR	OPERATOR	After construction.	Monitor annually	Completed. Requires on-going monitoring. Plan completed. Implementation in progress. The Monitoring Plan lays out the sampling protocol, which includes the GPS locations of wildflower fields and checkerbloom. Samples collected in 2010 and 2011.
g. If data collection indicates a decline in existing populations after implementation of the Disc Golf/Trailhead Area Concept Plan and Plant Objective O. P-8 of the BPMMP, relocation of trails or disc golf structures in the vicinity of these populations, or other management strategies that would benefit the plants based on the data collected, shall be implemented. This strategy would implement Plant Objective O. P-7 and Plant Implementation Strategies and Guidelines I. P-3 and I. P-4 of the BPMMP. The overall goal of the adaptive management strategy shall be the long-term maintenance of the same number and approximate extent of occurrences of Butte County checkerbloom as documented during the 2005 surveys.	OPERATOR / CITY	OPERATOR to reimburse CITY for surveys of checkerbloom, wildflower fields (Years 1, 3 and 5 and every other year thereafter – cost est. to be \$2,000 per survey)	After construction.	Monitor annually.	In progress. Data collection in 2011 will allow for future comparisons and we will be able to start to examine trends with the 2012 survey data.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
<p>Mitigation Measure BIO-1d: Implement Measures to Protect Bidwell's Knotweed at the Disc Golf/Trailhead Area</p> <p>The following measures shall be implemented to mitigate for potential direct and indirect effect to Bidwell's knotweed at the Disc Golf/Trailhead Concept Plan area:</p>	OPERATOR / CITY	OPERATOR/ CITY	See Below	See Below	See Below
<p>a. The Disc Golf/Trailhead Area Concept Plan shall be implemented to minimize direct and indirect impacts on Bidwell's knotweed habitat on the site. Because Bidwell's knotweed is an annual plant species, population sizes may fluctuate greatly from year to year. Therefore, simply avoiding plants that are present in a given year would not ensure that great numbers of individuals would not be affected in subsequent years. Therefore, a habitat approach shall be taken to minimize impacts on this species. This approach would entail minimizing impacts to wildflower fields, the native plant community that supports Bidwell's knotweed.</p>	OPERATOR / CITY	OPERATOR/ CITY	During construction of Disc Golf/Trailhead Area Plans and during ongoing operation	Implement prior to and during construction; monitor weekly during construction	In progress. The course alignment addresses many of the negative impacts from foot traffic. Data collected in 2011.
<p>b. Consistent with the Disc Golf/Trailhead Area Concept Plan, trails shall generally be placed outside of wildflower fields. The Disc Golf/Trailhead Area Concept Plan shall be implemented to restrict foot traffic to clearly defined trails and disc golf structures. The number of trails dissecting wildflower fields shall be minimized to the fewest number necessary to facilitate reasonable access to the disc golf course and scenic viewpoints, and trails shall be as narrow as possible and have clearly marked edges to reduce widening and discourage users from wandering off the path. Existing trails through wildflower fields that will not be retained as part of the Disc Golf/Trailhead Area Concept Plan shall be decommissioned, and barriers (such as boulders) shall be placed just outside any points where trails enter the wildflower field community to discourage use of these trails.</p>	OPERATOR / CITY	OPERATOR/ CITY	During construction of course and future trailhead. Ongoing.	Implement prior to and during construction; monitor monthly during construction	In progress. Many pathways were defined in 2011. With use we anticipate some modification and adjustment. Staff will be reviewing the trails and offer remedies with ORAI. With the course installation, a number of features have been placed to guide users to trails. The snake rail fencing appears to aid with narrowing and defining trails as users adapt to the new course. Staff will explore the need for it over time.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
c. Exclusionary fencing shall be installed under the guidance of a qualified botanist before commencement of construction to keep workers and equipment from disturbing wildflower field habitat intended for preservation. High priority shall be given to preserving those wildflower field communities that contained Bidwell's knotweed during surveys conducted in 2005.	OPERATOR / CITY	OPERATOR/ CITY	During construction.	Implement prior to construction; monitor monthly during construction	Completed. No further action required.
d. Permanent signage at the trailhead/rest area shall be installed to inform Park users of the presence and sensitivity of Bidwell's knotweed and wildflower field habitat and to deter users from disturbing the species.	OPERATOR	OPERATOR	After construction.	Implement following construction; monitor signage annually	Sign completed, on-going monitoring and maintenance of sign.
e. Per Plant Objective O. P-8 of the BPMMP, an adaptive management program shall be implemented that relies on periodic data collection on the distribution of Bidwell's knotweed at the Disc Golf/ Trailhead site. The goal of this adaptive management program shall be to document and monitor changes in the existing population of Bidwell's knotweed over time.	CITY	CITY	After construction and ongoing.	Monitor annually	In progress. Adaptive management program described as part of monitoring plan and will be completed as part of future data collection.
f. If data collection indicates a decline in the number or extent (i.e. square feet) of existing populations after implementation of the Disc Golf/Trailhead Area Concept Plan, relocation of trails or disc golf structures in the vicinity of these populations, or other management strategies that would benefit the plants based on the data collected, shall be implemented. Seasonal and annual variation of the plants in response to environmental conditions such as rainfall shall be taken into consideration when determining if a decline is occurring. This strategy would implement Plant Objective O. P-7 and Plant Implementation Strategies and Guidelines I. P-3 and I. P-4 of the BPMMP.	OPERATOR	OPERATOR to reimburse CITY for surveys of Bidwell's knotweed, wildflower fields (Years 1, 3 and 5 and every other year thereafter – cost est. to be \$2,000 per survey)	After construction and ongoing.	Monitor annually; develop program as needed	In progress.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
<p>Mitigation Measure BIO-2c: Implement Measures to Protect and Compensate for Loss of Vernal Pool Invertebrate and Western Spadefoot Habitat</p> <p>The CITY shall ensure that the following measures are implemented to avoid, minimize, and mitigate potential project effects on vernal pool invertebrates and western spadefoot:</p>	<p align="center">CITY</p> <p align="center">None exists</p>	<p align="center">CITY</p> <p align="center">None exists</p>	<p align="center">N/A</p>	<p align="center">Implement prior to and during construction; monitor as indicated below</p>	<p align="center">See Below.</p>
<p>a. Before any ground-disturbing project activities begin, the CITY shall retain a qualified biologist to identify and map potential habitat in areas that could be affected by the given project. The CITY shall ensure, through coordination with the biologist, that the footprint of project features and construction zones, staging areas, and access routes are designed to avoid direct or indirect effects on suitable habitat for vernal pool invertebrates and western spadefoot to the extent feasible and practicable. In addition to vernal pools, suitable habitat for western spadefoot includes the surrounding grassland matrix.</p>	<p align="center">CITY</p> <p align="center">None exists</p>	<p align="center">CITY</p> <p align="center">None exists</p>	<p align="center">N/A</p>	<p align="center">Implement prior to construction; monitor monthly during construction</p>	<p align="center">Completed. No further action required. The City completed a wetland delineation of the site (Galloway, 5/18/2009). The study concluded that no potentially jurisdictional wetlands or Other Waters of the United States were identified.</p>
<p>b. If vernal pool invertebrate and western spadefoot habitat cannot be avoided, measures shall be implemented to minimize and mitigate unavoidable effects. Before beginning any ground-disturbing project activities in such habitat, USFWS shall be consulted to identify appropriate measures to minimize and compensate for adverse effects on special-status vernal pool invertebrates; DFG shall be consulted to identify measures to minimize and compensate for adverse effects on western spadefoot. Avoidance and minimization measures shall include those described in USFWS's vernal pool crustacean Programmatic Consultation (USFWS 1996a). Minimization measures for vernal pool invertebrates shall include, but would not be limited to, fencing of habitat to be avoided, timing of ground disturbance to correspond</p>	<p align="center">CITY</p> <p align="center">None exists</p>	<p align="center">CITY</p> <p align="center">None exists</p>	<p align="center">N/A</p>	<p align="center">Implement prior to construction</p>	<p align="center">Not applicable.</p>

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
with the dry season, conducting worker awareness training, and periodic biological monitoring. Compensation shall include preservation, enhancement, and/or creation of suitable habitat in areas that currently, or could in the future, support special-status invertebrate and/or spadefoot populations.					
c. Authorization for take of vernal pool invertebrates under ESA shall be obtained if it is determined that implementation of a program component is likely to result in take, despite implementation of avoidance and minimization measures.	CITY None exists	CITY None exists	N/A	Implement prior to construction	Not applicable.
d. All other measures developed through informal consultation with USFWS and DFG shall be implemented, as well as any additional measures adopted through a formal permitting process, if applicable.	CITY None exists	CITY	N/A	Implement prior to construction; during and after construction; monitor as required	Not applicable.
Measures to Protect Nesting Raptors and Burrowing Owls The following measures shall be implemented to minimize and mitigate the potential disturbance of nesting raptors and burrowing owls.	See Below	See Below	See Below	See Below	See Below
Mitigation Measure BIO-2d(1): Protect Tree-Nesting Raptors a. Before project construction, it shall be determined whether any construction or tree removal is proposed during the raptor nesting season (February 1 to August 31). If no construction or tree removal will occur during the raptor nesting season, no further mitigation shall be necessary.	OPERATOR / CITY (construction)	OPERATOR/ CITY	Before and during construction during the breeding season of tree-nesting raptors	Implement prior to construction	Completed. No further action required. No construction occurred during raptor nesting season.
b. If construction or tree removal is proposed during the raptor nesting season, a focused survey for special-status and common raptor nests shall be conducted by a qualified biologist during the nesting season to identify active nests within 500 feet of the project area.	OPERATOR / CITY	OPERATOR/ CITY	TBD	Implement prior to construction	Not applicable.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
The survey shall be conducted no less than 14 days and no more than 30 days before the beginning of construction or tree removal.					
c. If nesting raptors are found during the focused survey, impacts shall be avoided by establishment of appropriate buffers. No project activity shall commence within the buffer area until a qualified biologist confirms that the nest is no longer active. The DFG guidelines for a 500 foot buffer will be implemented, but the size of the buffer may be adjusted if a qualified biologist determines a greater or lesser buffer would be appropriate and DFG concurs with any determination for a lesser buffer. The CITY shall coordinate with DFG on the appropriate buffer width for each species documented. Monitoring of the nest by a qualified biologist may be required if the activity has potential to adversely affect the nest or disturb the birds using the nest to the point of causing nest failure.	OPERATOR / CITY	OPERATOR/ CITY	TBD	Implement during construction	Not applicable.
Mitigation Measure BIO-2d(2): Protect Peregrine Falcon a. If construction at the Disc Golf/Trailhead Area Concept Plan site is to occur during the peregrine falcon breeding period (generally February 1 to June 30), an appropriate buffer around the southern cliff edge shall be determined by a qualified biologist and construction activities shall be avoided within the buffer zone unless a qualified biologist confirms there is no active nest on the cliff.	No Trees to be removed for disc golf.	OPERATOR	Before and during construction during the breeding season of peregrine falcons known to nest below the South Rim	Implement during construction	Not applicable.
b. If construction commences between June 30 and February 1, no buffer will be necessary.	OPERATOR - biologist	OPERATOR	TBD	Implement during construction	Completed. Construction compliant. No further action required.
Mitigation Measure BIO-2f: Implement Measures to Protect Other Special-status Nesting Birds The following measures shall be implemented to	OPERATOR - biologist	See below	Before and during construction during the breeding season of yellow warbler,		See Below

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
minimize and mitigate the potential disturbance of nesting special-status birds (February to August).			yellow-breasted chat, and loggerhead shrike.		
a. The CITY shall design Park Improvement Projects to minimize disturbance and removal of nesting habitat for special-status nesting birds to the extent feasible and practicable. Nesting habitat that cannot be avoided shall be removed during the non-nesting season, to the extent feasible and practicable.	OPERATOR / CITY	OPERATOR/ CITY	TBD	Implement during construction	Completed. No further action required.
b. To avoid potential impacts to active nests of special-status birds, a qualified biologist shall conduct preconstruction surveys to identify active special-status bird nests within 500 feet of construction areas. The survey shall be conducted no more than 10 days before project activities begin. If an active nest is found, an appropriate buffer to minimize impacts shall be determined by a qualified biologist in coordination with DFG. No project activities shall commence within the buffer area until a qualified biologist confirms that the nest is no longer active or the birds are not dependent upon it. The size of the buffer may vary, depending on the nest location, nest stage, and construction activity.	OPERATOR / CITY	OPERATOR/ CITY	TBD	Implement prior to construction	Not applicable. Construction began after the nesting season.
Mitigation Measure BIO-3c: Implement Measures to Protect Oak Woodland The following measures shall be implemented to mitigate potential impacts on oak woodlands resulting from implementation of the Disc Golf/Trailhead Area Concept Plan:	OPERATOR	OPERATOR	During construction activities and during management.	See below	See Below
a. Where possible, trails, improvements, and facilities shall be constructed outside of oak woodlands. The number of trails dissecting oak woodlands shall be minimized to the fewest number necessary to accomplish the goals of the site-specific Park Improvement Projects. The width of trails through oak woodlands shall be minimized and trails shall have clearly marked edges that discourage trail widening and deter	OPERATOR – biologist	OPERATOR	TBD	Implement during construction	In progress. Staff and Operator will be reviewing trail routes and trails that will be decommissioned.

**Revised (As Of 4/11/12) Summary Of Mitigation And Monitoring Measures For The Bidwell Park Peregrine Point Disc Golf/Trailhead Area
(Exhibit B Of Agreement).**

Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
users from straying off the designated trail.					
b. Trails through oak woodlands that are decommissioned as part of a site-specific Park Improvement Project shall be reclaimed using barriers (such as boulders) to discourage continued use of these trails.	OPERATOR / CITY	OPERATOR/ CITY	TBD	Implement during and following construction; monitor annually	In progress. Under review. Some barriers (i.e. snake rail fencing, rocks, and eventually plantings) will define a reduced footprint of tee pads and trails.
c. Grading, trenching, equipment storage, and other soil-disturbing or compacting activities shall not occur within the drip lines of oak trees. New structures and impervious-surface materials shall not be placed in the drip lines of oaks, except where deemed necessary to reduce the footprint size of tees as part of the proposed Disc Golf/Trailhead Concept Plan and to reduce soil compaction.	OPERATOR	OPERATOR	TBD	Implement during and following construction; monitor monthly during construction	Completed. No further action required. No grading, trenching, equipment storage occurred on site. The construction access route was planned to avoid wildflower field and blue oak areas to the extent possible. Operator's consultant suggested a priority be established to avoid drip lines and direct traffic over areas of tall grass (deeper soils), and minimize the extent of the route. Concrete tee pads have been installed to reduce the footprint size of tees.
d. To ensure that the drip lines of oaks are not disturbed during construction, protective fencing shall be installed, under the guidance of a qualified botanist, certified arborist, or Registered Professional Forester, at least 1 foot beyond the outer edge of the drip lines of all oaks that grow within the construction zones of the site-specific Park Improvement Projects, and no project activities shall be allowed within these exclusion zones, unless specifically required as part of project construction.	OPERATOR / CITY	OPERATOR/ CITY	TBD	Implement prior to and during construction; monitor monthly during construction	Completed. No further action required. Operator's consultant provided guidance for tree protection.
e. The oak woodland management guidelines contained in Section 3 of the NRMP (Appendix C of the BPMMP) shall be implemented. These guidelines include recommendations for sustaining oak woodlands, initiating a burning program, and maintaining the oak landscape.	OPERATOR / CITY	OPERATOR/ CITY	TBD	During and following construction	In progress. The NRMP will be updated.
f. In addition to the measures outlined above, the following additional measures shall be implemented in connection with development and ongoing maintenance of the proposed Disc	OPERATOR / CITY	OPERATOR/ CITY	TBD	Implement during and following construction	In progress.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
<p>Golf/Trailhead Concept Plan to protect oaks and to mitigate for any unavoidable loss resulting from mortality over time. These measures are based on site observations, oak woodland management guidelines provided by DFG, and measure recommended in the tree assessment (Appendix E4):</p>					
<p>g. Any modification to the proposed design and layout of the site shall be subject to the same impact avoidance and minimization criteria as the initial design;</p>	OPERATOR / CITY	OPERATOR-CITY	TBD	Implement during and following construction	<p>In progress. Any modification to the course design and layout has been made with the intent of the mitigation measures. A couple of modifications are worth pointing out. Hole 8 was shortened to avoid a wildflower field and shortened the overall footprint of the project.. The numbers for Holes 15 and 16 were swapped to improve the route and minimize trails. Hole 14 was placed in its current location to minimize damage to a new area and minimize the importation of additional material to make the tee pad level. We anticipate modification to the course as part of the adaptive management program for the project.</p>
<p>h. Information describing the value of native oak trees and the importance of the preservation and protection of oak woodland for wildlife habitat and the aesthetic values of Bidwell Park shall be provided at the informational kiosk at the Disc Golf/Trailhead area site. The information shall discuss the importance of avoiding direct impacts resulting from bark and limb damage as well as indirect effects such as soil compaction/root damage and shall encourage site users to act responsibly and prevent adverse effects.</p>	OPERATOR - CITY	OPERATOR to reimburse CITY for surveys of oaks (Years 1, 3 and 5 and every other year thereafter – cost est. to be \$1,000 per survey	TBD	Implement following construction; inspect signage annually	Completed. Follow-up monitoring required so that sign remains. City reviewed and approved ORAI sign (2011).
<p>i. In cases where disc golf pins are located within groves of oak trees or oak trees are within fairways, measures to protect the tree trunks such as the installation of shielding pole structures shall be implemented. Installation shall be implemented without damage to the root zone, and in a manner that preserves the visual character of the site.</p>	OPERATOR - CITY	OPERATOR - CITY	TBD	Implement during and following construction; monitor annually	Completed. Monitoring and placement on-going. Moveable wood pole structures in a concrete base were placed on site and were adjusted before the course opens.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
j. In cases where tees or trails are located within drip lines of oaks or in the immediate vicinity of drip lines, a 6 inch layer of woodchip mulch shall be applied to a 20' radius around the tees and on the trails to minimize soil compaction; this layer shall be maintained on a ongoing basis, as needed, to ensure continued protection of the root zones.	CITY	CITY	TBD	Implement during and following construction; monitor annually	Completed for construction(modified). On-going monitoring and action required. Modification: The purpose of the mulch is to minimize compaction under oak trees. For some locations (for example Hole 13) current play does not appear to be impacting areas 20 feet away. The installation of the tee pad, fencing, and other features will better define areas and likely reduce the area subject to compaction. Staff has concern that the addition of mulch in areas not unduly impacted by foot traffic will result in undesirable unintended impacts (mulch suppressing plant growth, requiring additional trips to install, and the requirement of 6" of mulch would either bury the roughly 3.5" tall tee pad, require additional concrete). Staff has approved the proposal to start with a smaller footprint and thinner layer for mulch. This approach will be examined once play begins and may require more frequent addition of mulch and future modification.
k. Periodic monitoring of the oaks at the site shall be conducted to determine if any unavoidable impacts are occurring as a result of site use, in spite of the impact minimization measures.	OPERATOR	OPERATOR	TBD	Monitor at least twice yearly following construction	To be determined.
l. Any unavoidable impacts to oaks resulting from construction, or tree mortality resulting from ongoing use of the site shall be mitigated by replanting oak woodland habitat at the Disc Golf/Trailhead site in areas located outside of the footprint of facilities and trails in areas not currently occupied by other sensitive resources and suitable to support blue oak woodland.	OPERATOR / CITY	OPERATOR/ CITY	TBD	Implement as needed after construction	To be determined.
m. Oak planting should be from seeds (acorns) or seedlings that are obtained from the local genetic stock and should be of the same species as those targeted for replacement. Replacement ratios shall be at least 5:1 for trees lost/replaced that are greater than 5 inches diameter at breast height..	OPERATOR / CITY	To be accomplished above B10-3c-f	TBD	Implement and monitor as needed after construction	To be determined. On site acorns will be collected and used for any future plantings.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
n. Oak plantings shall be protected from browsing, planted on the north and east side of existing trees, and irrigated during the first few years as outlined in the oak assessment (Appendix E4) to enhance their chance of survival.	OPERATOR / CITY Relating to disc golf facilities only.	OPERATOR/ CITY	TBD	Implement and monitor as needed after construction	To be determined.
o. Replacement plantings shall be monitored for their success for a period of five years or until the desired performance criterion of 5:1 is achieved, whichever is longer. If planting does not succeed, remedial actions such as replanting shall be implemented.	OPERATOR / CITY	OPERATOR/ CITY	TBD	Monitor yearly after planting for five years or until success criteria are achieved	To be determined.
p. If requested, community/user group stewardship of the plantings shall be allowed to contribute to restoration/revegetation efforts under guidance and supervision by CITY staff.	OPERATOR / CITY	OPERATOR/ CITY	TBD	Implement after construction	To be determined.
Mitigation Measure BIO-3d: Implement Measures to Protect Wildflower Fields The following measures shall be implemented to minimize potential disturbances to wildflower field communities resulting from implementation of the Disc Golf/Trailhead Area Concept Plan:	OPERATOR / CITY	OPERATOR/ CITY	Before and during construction of components of the Disc Golf/ Trailhead Area Concept Plan that occur within the immediate vicinity of wildflower fields	See below	See Below
a. Mitigation Measure BIO-1d shall be implemented to minimize adverse effects on wildflower fields resulting from implementation of the Disc Golf/Trailhead Area Concept Plan.	OPERATOR / CITY	OPERATOR/ CITY	TBD	Implement during construction; monitor as indicated above	In progress.
b. Whenever possible, trail segments, site improvements, facilities and other design features shall be located to minimize impacts to wildflower fields.	CITY	CITY	TBD	Implement prior to and during construction; inspect monthly during construction	Completed. On-going monitoring and action required.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
c. Exclusionary fencing shall be installed under the guidance of a qualified botanist before commencement of construction to keep workers and equipment from disturbing wildflower field habitat intended to be preserved on the project sites (some areas may be lost, consistent with site design).	OPERATOR	OPERATOR	TBD	Implement prior to and during construction; inspect monthly during construction	Completed. No further action required. Operator consulted with qualified biologist on exclusionary fencing needs.
d. The number of trails dissecting wildflower fields shall be minimized to the fewest number necessary to accomplish the goals of the site-specific Park Improvement Projects.	OPERATOR	OPERATOR	TBD	Implement prior to and during construction	In progress.
e. Trails through wildflower fields shall be as narrow as possible and shall have clearly marked edges that discourage trail widening and deter users from straying off the designated trail.	OPERATOR / CITY	OPERATOR / CITY	TBD	Implement prior to and during construction	In progress.
f. Existing trails through wildflower fields that will not be retained as part of the site-specific Park Improvement Projects shall be reclaimed using barriers (such as boulders) to discourage use of these trails. If these reclaimed trails fail to revegetate on their own over time, re-seeding may be considered.	OPERATOR / CITY	OPERATOR / CITY	TBD	Prior to, during and after construction; monitor annually	In progress.
g. Permanent signage shall be installed at kiosks located at the Disc Golf/Trailhead Area Concept Plan site to inform Park users of the presence and sensitivity of the wildflower field community and discourage visitors from off-trail use and trampling of vegetation.	OPERATOR	OPERATOR	TBD	Install after construction; monitor annually	Completed. On-going monitoring of signs required.
<p>Mitigation Measure BIO-4: Implement Measures to Protect Jurisdictional Wetlands</p> <p>The following measures shall be implemented to mitigate impacts on waters of the United States:</p> <p>a. Before the implementation of specific components of the Disc Golf/Trailhead Area Concept Plan that occur in the immediate vicinity of wetlands or other waters of the United States, a delineation of waters of the United States, including wetlands, that would</p>	CITY None exists	None exists	Before and concurrent with any component of the Disc Golf/Trailhead Area Concept Plan that involve ground-disturbing activities in or near jurisdictional wetlands and/or waters of the state	Implement prior to construction	Not applicable. No jurisdictional wetlands found on site (Galloway, 2009).

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
be affected by the proposed projects shall be made by qualified biologists through the formal Section 404 wetland delineation process. The delineation shall be submitted to and verified by USACE.					
b. If, based on the verified delineation, it is determined that fill of waters of the United States would result from implementation of any of the site-specific Park Improvement Projects, authorization for such fill shall be secured from USACE through the Section 404 permitting process.	CITY	CITY	N/A	Implement prior to construction N/A	Not applicable.
c. The acreage of waters of the United States, including wetlands, that would be adversely affected by project construction shall be replaced or restored/enhanced on a “no net loss” basis in accordance with USACE regulations and CITY General Plan Policy OS. G-9. Habitat restoration, enhancement, and/or replacement shall be at a location and by methods agreeable to USACE, as determined during the Section 404 permitting process.	CITY None Exist	CITY	N/A	Implement prior to construction N/A	Not applicable.
d. Purchasing credits at a mitigation bank is the CITY’s preferred method of mitigation.	N/A	N/A	N/A	Implement prior to construction N/A	Not applicable.
e. Concurrently with the CWA Section 404 permit, the CITY shall obtain CWA Section 401 Clean Water Certification from the Central Valley RWQCB before project implementation.	N/A	N/A	N/A	Implement prior to construction N/A	Not applicable.
f. The CITY shall also coordinate with the Central Valley RWQCB regarding any wetland features that are not subject to USACE jurisdiction under Section 404 of the CWA, but may be subject to State regulation under the Porter Cologne Act. All conditions required by the RWQCB as part of the Section 401 Water Quality Certification process or Porter Cologne permitting process shall be implemented.	N/A	N/A	N/A	Implement prior to construction N/A	Not applicable.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
CULTURAL RESOURCES	See below	See below	See below	See below	See below
<p>Mitigation Measure CUL-1: Protect Historic and Unique Archaeological Resources from Impacts</p> <p>The CITY shall implement the following mitigation to reduce potential direct impacts on historic and unique archaeological resources:</p>	CITY	CITY	During final design of projects and during construction activities	See below	See below
a. Consistent with the policies of the BPMMP, a qualified archaeologist shall conduct a cultural resources assessment of the proposed project site during project planning and design. For the Trails Plan, this can be accomplished on a segment by segment basis.	Done	CITY	N/A	This part of the measure has been completed	Completed. No further action required.
b. If cultural resources are documented in the planning area, they shall be evaluated for their significance.	Done	CITY	N/A	This part of the measure has been completed	Completed. No further action required.
c. If it has been determined by a qualified archaeologist that a cultural resource is significant, the project shall be designed or redesigned to avoid these cultural resources to the greatest extent feasible.	Done	CITY	N/A	This part of the measure has been completed	Completed. No further action required.
d. If avoidance of significant sites is not feasible, mitigation in the form of data recovery shall be applied to archaeological sites.	CITY – none known	CITY	TBD	Implement during construction; monitor monthly	Not applicable.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
<p>e. For portions of the Humboldt Wagon Road that cannot be avoided during implementation of the Disc Golf/ Trailhead Concept Plan, impacts would result in destruction of a portion of the route and intrusion of newer elements that would alter the immediate surroundings. As outlined in the management plan (see Jensen, et al. 1996; Table 2), this segment of the road appears significant based upon the associated archaeological deposit (NRHP Criterion D/CRHR Criterion 4), which will not be impacted by construction, and the association of the wagon road with John Bidwell. As currently designed, neither Alternative A nor Alternative B will result in destruction or alteration of the surroundings of the archeological deposit, and would impact only a percentage of the route associated with the original person responsible for its construction, John Bidwell. The surrounding environment of this segment of the route has been previously impacted by construction of a more recent dirt road that parallels the contemporary route of Highway 32, such that the immediate surroundings have been altered from what was present during the historic period. Therefore, because neither alternative would impact the archaeological deposit or substantially impair the significance of the resource as it relates to its association with a person of historic importance (NRHP Criterion B/CRHR Criterion 2), both alternatives would result in less-than-substantial adverse changes in the significance of this resource.</p>	<p>Will be preserved – CITY</p>	<p>CITY</p>	<p>TBD</p>	<p>Implement during construction; monitor monthly</p>	<p>Not applicable. Designs selected minimize impacts to Humboldt Wagon Road. Staff will continue to monitor.</p>
<p>f. Mitigation of any adverse changes resulting from direct impacts caused by implementation of the Disc Golf/Trailhead Area Concept Plan shall take the form of interpretive signage presenting an historic overview and the historic importance of the Humboldt route.</p>	<p>CITY if needed</p>	<p>CITY</p>	<p>TBD</p>	<p>Install signage after construction; monitor annually</p>	<p>Not applicable.</p>

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
<p>Mitigation Measure CUL-2b: Protect Human Remains from Vandalism and Inadvertent Destruction</p> <p>a. In accordance with the California Health and Safety Code, if human remains are uncovered during ground- disturbing activities related to implementation of the Disc Golf/Trailhead Area Concept Plan Project, all such activities in the vicinity of the find shall be halted immediately and the CITY or the CITY's designated representative shall be notified. The CITY shall immediately notify the county coroner and a qualified professional archaeologist. The coroner shall examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or state lands (Health and Safety Code Section 7050.5[b]). If the coroner determines that the remains are those of a Native American, he or she shall contact the Native American Heritage Commission (NAHC) by phone within 24 hours of making that determination (Health and Safety Code</p>	CITY	OPERATOR - CITY	During construction activities	Implement during construction	Completed. No further action required. We do not anticipate any further significant ground disturbing activities.
<p>Section 7050[c]). The responsibilities of the CITY for acting upon notification of a discovery of Native American human remains are identified in detail in the California Public Resources Code Section 5097.9. The CITY or its appointed representative (Park Director) and the professional archaeologist shall consult with a Most Likely Descendant (MLD) determined by the NAHC regarding the removal or preservation and avoidance of the remains and determine whether additional burials could be present in the vicinity.</p>	CITY	CITY	During construction activities	Implement during construction	Not applicable.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
HYDROLOGY	See below	See below	See below	See below	See below
<p>Mitigation Measure HYDRO-1b: Comply with Water Quality Standards and Waste Discharge Requirements</p> <p>When required, the CITY shall obtain a General Permit for Discharges of Storm Water associated with Construction Activity (Construction General Permit), which pertains to water pollution resulting from project construction. In compliance with permit requirements, the CITY shall file a Notice of Intent (NOI) with the State Water Resources Control Board (SWRCB) and prepare a Storm Water Pollution Prevention Plan (SWPPP) before commencement of construction activities. The SWPPP will incorporate BMPs to prevent, or reduce to the greatest extent feasible, adverse effects on water quality from erosion and sedimentation. In addition, all new trails shall be designed, constructed, and maintained per the CITY's Trails Manual.</p>	OPERATOR – CITY	OPERATOR-CITY	Before commencement of construction activities	Implement and monitor as indicated in SWPPP	Not applicable. No permit required, significant erosion control measures are in place.
NOISE	See below	See below	See below	See below	See below
<p>Mitigation Measure Noise-1: Construction Related Noise</p> <p>The following measures shall be implemented to mitigate for construction noise control associated with the Disc Golf Trailhead Area Concept Plan Project:</p>	CITY	CITY	During construction of Park Improvement Projects	N/A	See below
a. Construction equipment shall be properly maintained and equipped with noise control, such as mufflers, in accordance with manufacturers' specifications	OPERATOR	OPERATOR	TBD	N/A	Completed. No further action required.
b. Construction activities shall be limited to the hours of 7:00 a.m.–9:00 p.m., Monday through Saturday, and to 10:00 a.m.–6:00 p.m. on Sundays and holidays.	OPERATOR	OPERATOR	May vary with approval of CITY	N/A	Completed. No further action required. Staff recommended an earlier start time in September to minimize the potential for fire. No complaints received.
c. Construction equipment shall be arranged to minimize travel adjacent to occupied residences and turned off during prolonged	OPERATOR	OPERATOR	TBD	N/A	Completed. No further action required. Operator appeared compliant.

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Mitigation Measure	Implementation Responsibility	Funding Responsibility	Implementation Trigger or Date	Frequency	Implementation Comments
periods of non-use.					
TRAFFIC					
<p>Mitigation Measure Traffic-4: Coordinate with Caltrans</p> <p>a. To address the potential increase in traffic hazards resulting from implementation of the Disc Golf/Trailhead Area Concept Plan, the CITY shall coordinate with Caltrans to obtain an encroachment permit for construction of the site access and parking lot for the Disc Golf/Trailhead area. As part of the consultation with Caltrans, the CITY shall address the potential need for additional signage and/or a left turning lane to address traffic safety along SR 32. The CITY shall implement any measures deemed necessary by Caltrans as a condition of the encroachment permit or as a result of the consultation on safety.</p>	CITY	CITY	Prior to construction of the Disc Golf/Trailhead Area Concept Plan	N/A	To be determined. This mitigation will be completed as part of trailhead access construction. Staff did meet with Caltrans and they have completed improvements to the entry.

Notes: N/A – Not Applicable, TBD – To Be Determined.

Appendix B – ORAI Annual Report

DRAFT

January 1, 2012

City of Chico
965 Fir Street
P.O. Box 3420
Chico, CA 95927

Subject: Annual Report

To Whom It May Concern:

Per the operating agreement currently in place, the following is the report for Peregrine Point for the year of 2011.

Background: A section of the operating agreement signed by the Chico Outsiders requires an annual report on Peregrine Point be made to the City of Chico. The requirements of the report are not defined by the agreement, although some headings specifically are mentioned. The report's timing is intended to coincide with the start of what would be considered the "wet season" where activities are likely to diminish at Peregrine Point. This report covers the time frame from opening day until December 31, 2011.

Usage: The Chico Outsiders do not, and are not required to, maintain records of the number of visits to the site by the public or demographics of public use. Some user information can be gleaned from ranger records of site visits. In November of 2009 a report was provided to the City of Chico based on ranger records.

The Chico Outsiders had 10 exclusive use days and were able to sell fundraising items on one Saturday per month. We held tournaments on many of the days, but no single event brought in more than 30 participants.

Mitigations: In 2011 the Chico Outsiders paid \$3,700 for studies on the condition of specific natural resources at the Peregrine Point site.

Course Condition: Course conditions in 2011 were much better than in previous years. Due to the large amount of rainfall received, wild flowers and grasses thrived in the spring and well into the summer. In addition, within just a few months you were not able to tell where the construction road had run through the course.

Course Maintenance: Course maintenance was minimal in 2011 with approximately 240 volunteer hours used. The course had been taken out of use for 6 months from 2010-2011, and probably another 6 weeks due to rain closures. Since the course was relatively new there was not a significant need for maintenance effort. Some of the work that did occur was regular litter removal, although there is traditionally very little litter on the site. There were additional efforts made to cover trails not on the fairways of disc golf holes that had

developed. These efforts focused primarily on holes 1, 5, 6, 8, 9, and 17. Many of the trail improvements made have been successful. We are currently considering improvements to the trail between the tee-pad and target on hole-4. Weeds were removed from tee-pad areas and in several places tee-pad fencing was rewired. The tee-pad fencing seems to suffer on benchless holes from people sitting or standing on them. Some vandalism has occurred on the course. Two tree guard poles have been broken, and one thrown into a tree canopy. Benches, rocks, and the port-a-potty have been tagged.

Course Improvement: We are currently in the process of designing new tree guards to better protect the trunks of the trees. We also have plans to implement trail improvements on hole 4 to improve rain run-off on hill face.

Proposed Activities: In 2012 we will have our Bag Tag Tournaments and tournaments open to the general public on our Exclusive Use Days to assist in fundraising.

Finances: In 2011 Chico Outsiders spent \$9,000 on Peregrine Point. That expenditure included \$3,700 for studies, \$1,600 for insurance and \$2,100 on repairs or improvements. The repairs/improvements were primarily costs associated with the installation of signage at the entrance of the course installed prior to opening day. The balance of \$1,600 was the cost to run a non-profit. Additional funds, beyond \$9,000, were expended to purchase promotional material for resale or membership items. Income comes from membership, donations, and fundraising item sales in roughly equal proportions. Recently two local retailers have begun selling Peregrine Point fundraising items on our behalf. These businesses are Sports LTD and North Rim Adventure Sports.

Advertising: The Chico Outsiders are required to regularly advertise Peregrine Point to the public. We do this through a monthly newsletter sent to 600 members, a Facebook group with 450+ members, a web site that is updated monthly, and through organized activities. Information on signage at Peregrine Point is also updated on a regular basis. We also provide score cards and maps for Peregrine Point and Sherwood Forest. Organized activities have included fundraising tournaments and monthly games. We also organized a bag-tag competition where players compete for the lowest tag number over a several months. The bag-tag season began in March and ended at the end of October.

Sincerely,



Todd Cathers - President
Outside Recreation Advocacy, Inc.
A California 501(c)3
www.chico-outsiders.com

Appendix C – Peregrine Point Photos

DRAFT



CITY OF CHICO MEMORANDUM







TO: FILE DATE: 7/8/11











FROM: DAN EFSEAFF FILE: PP-DG











SUBJECT: PEREGRINE POINT DISC GOLF COURSE – SITE PHOTOPPOINTS
SPRING 2011











Instructions – Insert photo and add location caption, compress the pictures to reduce the overall file size, sort by column 1. Nomenclature: Hole # - Tee Pad (H*- P) and Hole # - Target (H*-T).











Hole (H) and Photo-Point Panorama (PP) Photographs







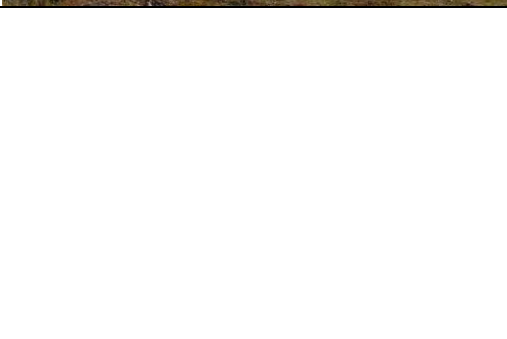



Location	March 2011	July 2011
PP-1		
H1-P		
H1-T		
PP-2.1		

Location	March 2011	July 2011
PP-2.2		
PP-2.3		
PP-2.4		
PP-2.5		
PP-2.6		











Location	March 2011	July 2011
PP-2.7		
PP-2.8		
PP-2.9		
PP-2.10		
H2-P		











Location	March 2011	July 2011
H2-T		
H3-P		
H3-T1		
H3-T2 (H4-P)		
H3-T3 (H4-T)		











Location	March 2011	July 2011
H3-T4 (H4-T alternate)		
H4-T1		
H4-T2		
H4-T3 (H5-P)		
H5-T1		









Location	March 2011	July 2011
H5-T2		
H6-P		
H6-T1		
H6-T2 (H7-P)		
H7-P		











Location	March 2011	July 2011
H8-P		
H8-T1		
H8-T2 (H9-P)		
H9-T1		
H9-T2		



Location	March 2011	July 2011
H9-T3		
H10-P1		
H10-P2		
H11-P1 (H10-T)		
H11-P2		

Location	March 2011	July 2011
H11-T1		
H12-T		
H12-T1		
H12-T2 (H13-P)		
H13-P1		

Location	March 2011	July 2011
H14-P		
PP3-1		
PP3-2		
PP3-3		
H14-T		

Location	March 2011	July 2011
H15-P		
H15-T1		
H15-T2		
H15-T3		
H16-P		

Location	March 2011	July 2011
H16-T		
H17-P1		
H17-P2		
H17-T		
H18-P		

Location	March 2011	July 2011
H18-T		

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4/24/2012

Appendix D – [NSR]. North State Resources. 2011. Peregrine Point Disc Golf Course Botanical Monitoring. NSR No. 51325. Chico, CA.

DRAFT

Technical Memorandum

Date: July 8, 2011

To: Mr. Dan Efseaff, Park and Natural Resource Manager, City of Chico

From: Ms. Christine Hantelman, Botanist

Project: NSR No. 51325 - Peregrine Point Disc Golf Course Botanical Monitoring

Subject: 2011 Botanical Monitoring Results

I. INTRODUCTION

On behalf of the City of Chico (City), North State Resources, Inc. (NSR) conducted a botanical survey on and around the site of the Peregrine Point Disc Golf Course, hereinafter referred to as the “study area.” The purpose of this survey is to document the distribution and extent of Butte County checkerbloom and Bidwell’s knotweed as identified in the *Bidwell Park and Disc Golf Course/Trailhead Area Concept Plan Environmental Impact Report - Master Mitigation and Monitoring Plan* (City of Chico and EDAW 2008). This letter summarizes the results of the findings regarding the selected botanical resources detected and mapped within the study area. All figures are located at the end of the memorandum.

II. PROJECT LOCATION

The approximately 70-acre study area is located along the west side of State Highway 32 approximately 7 miles east of the city of Chico (Figure 1). The study area occurs in the eastern portion of Bidwell Park on the south rim of the ridge overlooking Big Chico Creek at an elevation range of approximately 1,050 to 1,300 feet above mean sea level. Barbed-wire fence encloses the study area on the southern and western edges.

III. PHYSICAL AND BIOLOGICAL SETTING

The study area contains thin soils that are formed from the volcanic mudflow breccia that is part of the Tuscan Formation. These hard mudflows form the rocky outcrops covered with thin soils that support the vegetated areas identified as “wildflower fields” in previous studies of the study area (City of Chico and EDAW 2008). Blue oak occurs on the deeper soils formed on volcanic conglomerate (U.S. Department of Agriculture and Natural Resources Conservation Service 2006).

The site has been used by hikers and naturalists and, for the last 15 years, informally as a disc golf course. Footpaths and trails, eroded soils, trampled plants, and damaged trees are some examples of disturbances at this site that reflect its historical and current use.

Vegetation on the site is a mix of blue oak (*Quercus douglasii*) savannah with sparse, scattered tree cover and blue oak/foothill woodland with foothill pine (*Pinus sabiniana*) and interior live oak (*Quercus wislizenii*), interspersed with annual grassland elements and exposed volcanic

mudflow. Understory shrubs and vines occurring within the woodland are manzanita (*Arctostaphylos manzanita*), redberry (*Rhamnus ilicifolia*), buck brush (*Ceanothus cuneatus*), poison oak (*Toxicodendron diversilobum*), and honeysuckle (*Lonicera interrupta*). Grassland within the study area is dominated by non-native annual grasses such as wild oats (*Avena barbata*), Italian wildrye (*Lolium multiflorum*), soft chess (*Bromus hordeaceus*), annual fescues (*Vulpia* spp.), false brome (*Brachypodium distachyon*), dogtail (*Cynosurus echinatus*) and medusahead (*Taeniatherum caput-medusae*). Non-grass species flowering in the woodland at the time of survey include twining brodiaea (*Dichelostemma volubile*), soap plant (*Chlorogalum pomeridianum*), purple clarkia (*Clarkia purpurea*) and Butte County checkerbloom (*Sidalcea robusta*).

Thinner soils associated with the edges of the exposed volcanic mudflow supported a few annual grasses, mostly annual fescues and soft chess, as well as needle-leaved navarretia (*Navarretia intertexta*), June centauray (*Centaureum muehlenbergii*), Douglas' sandwort (*Minuartia douglasii*), dwarf stonecrop (*Parvisedum pumilum*), timwort (*Cicendia quadrangularis*), Hansen's spike-moss (*Selaginella hansenii*) and Bidwell's knotweed (*Polygonum bidwelliae*).

IV. SURVEY METHODOLOGY

In late May 2011, a targeted survey was conducted to relocate and map previously recorded occurrences of the Butte County endemics, Butte County Checkerbloom (hereafter "checkerbloom") and Bidwell's knotweed (hereafter "knotweed"). The City provided a map of checkerbloom occurrences from surveys done in 2002, 2005, and 2010 that was used to relocate known checkerbloom plants. As a consequence of time and budgetary constraints, the survey was limited to the portion of the study area encompassing the Peregrine Point Disc Golf Course area and the northeastern end of the study area where checkerbloom was documented in 2010 (Chico Environmental 2010). Wildflower fields within the main area of play that were known from previous surveys to contain knotweed were surveyed, and knotweed occurrences were mapped; other wildflower fields were scanned for presence of knotweed as time permitted. Incidental observations of noxious weeds were also recorded. Although associated species and general vegetation attributes were noted with regard to rare plant occurrences, a full floristic survey was not conducted.

Checkerbloom is a long-lived rhizomatous species, with multiple aboveground growing points (meristems) arising from the whole length of the underground stems (rhizomes) of the same genetic individual. These growing points can also be naturally separated and relocated (e.g. by fossorial mammals). Because of this clonal nature, genetically separate individuals of checkerbloom are difficult or impossible to identify in the field (Hantelman 2004), and "clumps" were defined as a checkerbloom counting unit (unit) wherever two or more meristems were separated from each other by less than 10 cm (4 in). During the survey, the following checkerbloom units were used:

- Individuals - single meristems separated from other meristems by 50 cm (19.6 in).
- Small clumps - clumps with 1-5 separate meristems co-located in an area less than 50 cm x 50 cm.
- Large clumps - clumps with 5 or more meristems close together that cover an area greater than 50 cm x 50 cm.

Checkerbloom also produces large “clonal mats”: tightly intermingled groups of meristems covering at least a square meter, with the meristems not separable by visual inspection. These were treated as “large clumps”.

The location of checkerbloom units was recorded as point data using a Trimble Pathfinder Pro XH Global Positioning System (GPS) capable of sub-meter accuracy. For each data point, the number of checkerbloom units, checkerbloom phenology, plant associates, and potential threats were recorded using the *California Native Species Field Survey Form* (CNDDDB 2008).

To determine between year changes in populations of checkerbloom within discrete areas, polygons were drawn around closely co-located checkerbloom data points recorded from the current 2011 survey and the points recorded in the 2010 survey. The total number of units within each polygon (checkerbloom group) was counted. Where the number of plants was estimated (e.g., “4-5”), the lowest number was used for data from both years. The 2010 survey data provided to NSR by the City did not specify how individuals or clumps (aka patches) were distinguished, therefore, in the comparison between years, all units used (individuals, small clumps, and large clumps) were each counted as one unit. For example, if a data point records the location of “one small and one large clump”, the number of checkerbloom units would be two. Flowering stems (racemes) were also counted and recorded for checkerbloom units mapped in 2011. Raceme data are only available for 2011, so no comparisons could be made with previous years.

Bidwell’s knotweed is a diminutive annual that occurs on the exposed volcanic mudflow and thin soils of the wildflower fields in the study area. Because knotweed plants occur close together and in great numbers (often 100 or more), mapping individuals is impractical. For this survey, knotweed plants at the perimeter of a larger occurrence were flagged and polygon data were generated by walking from flag to flag, using a Trimble Pathfinder Pro XH Global Positioning System (GPS) capable of sub-meter accuracy. Estimated number of individuals, phenology, plant associates, and potential threats were also recorded.

The two-visit botanical survey was conducted by NSR Botanist, Christine Hantelman, on May 24 and 27, 2011. Dan Efseaff, City Park and Natural Resource Manager, met with Ms. Hantelman during a portion of the survey to assist in the relocation of previously recorded botanical resources.

V. RESULTS AND DISCUSSION

Checkerbloom

A total of 132 checkerbloom units were mapped (53 data points) during the 2011 survey. About half of the units (51.5%) were in a vegetative state, that is, they produced no racemes. Just less than half (48.5%) bore flowering stems in various stages of development. Phenologically, the population at the study area was in early flower with about a third (34.5%) of the racemes in full flower and 26.8% of the racemes still in bud. The remaining racemes (38.6%) had been “nipped” below the buds. The data are summarized in Table 1. The data points and checkerbloom groups (CGs) are shown in Figure 2.

Table 1. Summary of field data for Butte County Checkerbloom occurrences at Peregrine Point Disc Golf Course

Checkerbloom Occurrence Attribute	Total number	% of total
Total # checkerbloom units (individuals, small & large clumps)	132	
# units reproductive	64	48.5%
# units vegetative	68	51.5%
Total # checkerbloom racemes	145	
# racemes in flower/fruit racemes	50	34.5%
# racemes in bud	39	26.8%
# racemes nipped	56	38.6%

Most of the checkerbloom units occurred within blue oak woodland paralleling the 15th, 16th and 14th fairways or were associated with individual oak trees or the drip line of shrubs at the ecotone of woodland and grassland (CG-3, CG-4, and CG-5). Another cluster of points is located along the edge of woodland east of the 2nd fairway (CG-2). One particularly robust individual was found nestled against a rock in the heavily disturbed and eroded area downslope of the 3B tee pad. The out-of-bounds areas between the 3B and 3 baskets and bounded by rail fence was another area where checkerbloom was relatively abundant. Additional checkerbloom units were mapped in the northeastern portion of the study area, outside the general area of disc golf play (CG-7 and CG-8).

In general, plants appeared to be in good condition, with no obviously trampled or damaged plants in the area of golf play. Flowering stems were robust with few buds aborting as has been observed at other checkerbloom locations (Hantelman 2004). Evidence of herbivory on checkerbloom racemes was observed and recorded at the study area. About 38.6% of the racemes counted were “nipped” to a few centimeters (1 – 2 inches) from ground level, with no buds or flowers left on the stem.

Compared with the 2010 survey results in which 65 checkerbloom units were mapped as 30 data points, 132 units were mapped in 2011 (Table 2). This apparent doubling in number of checkerbloom individuals may be due to inconsistencies in survey counting methods between years. Because of clonal nature of the plant and rainfall variation between years, checkerbloom units can change in apparent size and in the number of aboveground meristems and racemes produced from year to year. Non-flowering meristems often go undetected in dense vegetation and can fail to emerge in a resource-poor year (personal observation). Counts of this plant can vary widely, depending on the experience of the surveyor and the methods chosen for counting individuals.

The raceme count at each data point was added to the methodology as it was quick; often being completed while the GPS receiver was logging data. Raceme count is an alternative method of determining reproductive effort. Although checkerbloom plants are long-lived and can multiply clonally, for the population to persist and remain resilient in the face of environmental changes, seed production and recruitment of seedlings is ultimately necessary. Therefore quantifying

Table 2. Comparison of checkerbloom survey points and units counted between 2011 and 2010 within checkerbloom groups (CG)

CG-#	2011 Data Points	Checkerbloom Units ¹ (2011)	2010 Survey Points	Checkerbloom Units (2010)
1	SIRO 30-45	39	Wsc (unnumbered); Wsc 002-006	16
2	SIRO 27-29	4	Wsc 1	9
3	SIRO 11-20; SIRO 26	28	Wsc 011; Bcb1	2
4	SIRO 21-25	20	Wsc 010; Wsc 009; Bcb1 002; Bcb1 003	6
5	SIRO 53	1	Wsc 007	2
6	SIRO 46-52	28	Bcb1 005; Bcb1 006; Wsc 16-19	17
7	SIRO 6-9	5	Bcb1 009-013	6
8	SIRO 1-5; SIRO 10	7	Bcb1 008; Bcb1 007; Bcb1 014	4
	Total	132	Total	62

¹ Number of units determined by counting all recorded individuals, clumps (small or large) and mats as equal units.

reproductive effort may be relevant to the long-term monitoring of the population at the study area. Between-year variation of raceme counts would likely be large due to interannual variation in precipitation (and thus available resources for the plants to use in reproduction), however, general trends up or down would be detectable after a few years effort. The combination of relocating and counting checkerbloom units and counting racemes may give the most information for the same effort.

Knotweed

Previously mapped occurrences of Bidwell's knotweed within the main disc golf area were relocated and mapped in 2011 (Figure 2). Time and budget constraints did not allow for knotweed surveying west of the 8th tee pad or in the northeastern end of the study area. The large wildflower field along the rim of the canyon between the ridge edge and north of 5th and 6th fairways was briefly scanned for knotweed, but none was observed. Knotweed mapped by Stuart (2002) near the 14th tee pad was relocated and mapped in 2011, although it does not appear to have been mapped during the 2005 survey (EDAW 2005).

The mapping effort was well-timed: 95-100% of the knotweed plants were in flower, when the species is most readily detected. In all, ten large polygons containing 100s to 1000s of knotweed plants were mapped. All occurred on the thin soils associated with the edges and surface of exposed volcanic mudflow. Knotweed was almost always found growing with June centaury and needle-leaved navarretia, and was also strongly associated with undisturbed algal crusts on the volcanic mudflow. Knotweed plants also occurred along the edges of trails or footpaths within or beside the wildflower fields, however, few if any plants were observed in the compacted soil of the actual trails and paths. A summary of knotweed polygons, estimated number of plants, associated plant species, and possible threats are found in Table 3.

Table 3. Comparison of checkerbloom survey points and units counted between 2011 and 2010 within checkerbloom groups (CG)

Polygon ID #	# plants	% in bud	% in flwr	Knotweed Associates	Threats
POBI-1	1000-3000	10	90	<i>Centaurium muehlenbergii</i> , <i>Brodiaea coronaria</i> , <i>Navarettia intertexta</i> , <i>Clarkia purpurea</i> , <i>Minuartia douglasii</i>	footpath along edge of occurrence; proposed trailway
POBI-2	100-1000	5	95	Same as POBI-1; tends to occur with algal crusts	trails, bulldozer disturbance from previous years
POBI-3	100-300	0	100	<i>Centaurium muehlenbergii</i> , close associate; dead <i>Parvisedum pumilum</i> present	n/a ¹
POBI-4/5	1000-5000	0	100	<i>Centaurium muehlenbergii</i> , close associate; dead <i>Parvisedum pumilum</i> present	n/a
POBI-6	50-100	0	100	n/a	sheet erosion, heavy trampling, high gopher activity, trails/footpaths throughout
POBI-7	<50	0	100	n/a	
POBI-8	1000-3000	0	100	algal crust, <i>Selaginella hansenii</i> , <i>Clarkia purpurea</i> , <i>Cicendia quadrangulata</i> , <i>Aira caryophyllea</i> .	goat grass (<i>Aegilops triuncialis</i>) surrounding site along N edge.
POBI-9	1000-3000	0	100	n/a	foot traffic along fairway
POBI-10	100-500	n/a	n/a	n/a	n/a

¹ Due to time constraints in the field, not all attributes were assessed for each knotweed occurrence.

Incidental Observations

During the 2011 survey, a fairly large infestation of barbed goat grass (*Aegilops triuncialis*) was observed in the grassland area southwest of the 9th fairway and north of the large wildflower field containing knotweed (south of 8th and 9th fairways and west of the 10th tee). Plant number was estimated at tens of thousands; most plants were in fruit. This species spreads readily by seed, is unpalatable to grazing animals, has a 2-5 year seed life, establishes easily on disturbed and compacted soils and produces over 100 seeds per plant on average (California Department of Food and Agriculture [CDFA] 2011). Given the heavy foot traffic (high dispersal potential) observed in this portion of the study area, it is recommended that control efforts of this CDFA List B noxious weed be undertaken before it spreads further, potentially impacting rare plants within the study area. Other incidental observations include a single scotch broom (*Cytisus scoparius*) plant (CDFA List C) in the eastern end of the study area and a blue elderberry shrub (*Sambucus mexicana*) near the 16th basket.

VI. CONCLUSION

Butte County checkerbloom and Bidwell's knotweed plants were relocated and mapped at most of the locations from which they were previously known, including all those within the main disc golf area. Nearly twice as many checkerbloom units were counted in 2011 than were observed in 2010; however, this difference may be due to counting inconsistencies between the surveys related to the clonal nature of checkerbloom. This survey provides numeric descriptions of counting units in an attempt to provide standardized checkerbloom counting units for more relevant between-year comparisons. No numerical comparison of knotweed plants is available between years; however, the extent of knotweed appears to have remained about the same between years in wildflower fields that were surveyed. The noxious weeds barbed goat grass and scotch broom were discovered within the study area. Potential threats to both checkerbloom and knotweed continue to be trampling, soil erosion, weed invasions, and additionally in the case of checkerbloom, herbivory.

VII. REFERENCES

- California Department of Food and Agriculture. 2011. *Encyclopedic data sheets*. Available online at <http://www.cdfa.ca.gov/phpps/ipc/weedinfo/aegilops.htm#anchor483319>
- City of Chico and EDAW. 2008. *Bidwell Park Disc Golf/Trailhead Area Concept Plan Environmental Impact Report – Master Mitigation and Monitoring Plan*.
- Chico Environmental. 2010. *Wildflower Survey of Hwy 32 Disc Golf Course area*. Survey data and cover letter prepared for City of Chico, dated June 10, 2010.
- CNDDDB. 2008. *California Native Species Field Survey Form*. California Natural Diversity Database. Available at http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/CNDDDB_FieldSurveyForm.pdf.
- EDAW. 2005. *Upper Bidwell Park Disc Golf Course – Environmental and Design Report*. Prepared by Michael Belchik and EDAW for the City of Chico.
- Hantelman, C. 2004. *Ecological Life History of a checkerbloom, Sidalcea robusta (Malvaceae), a rare endemic plant of Butte County, California*. Masters' Thesis, California State University, Chico. Chico, CA.
- Stuart, K. 2002. *Survey for Special Status Botanical Species for the City of Chico's Bidwell Park Trails Project, Butte County, CA*. Prepared for the City of Chico.
- U.S. Department of Agriculture and Natural Resources Conservation Service. 2006. *Soil survey of Butte area, California, parts of Butte and Plumas counties*. Washington, D.C.: U.S. Government Printing Office.

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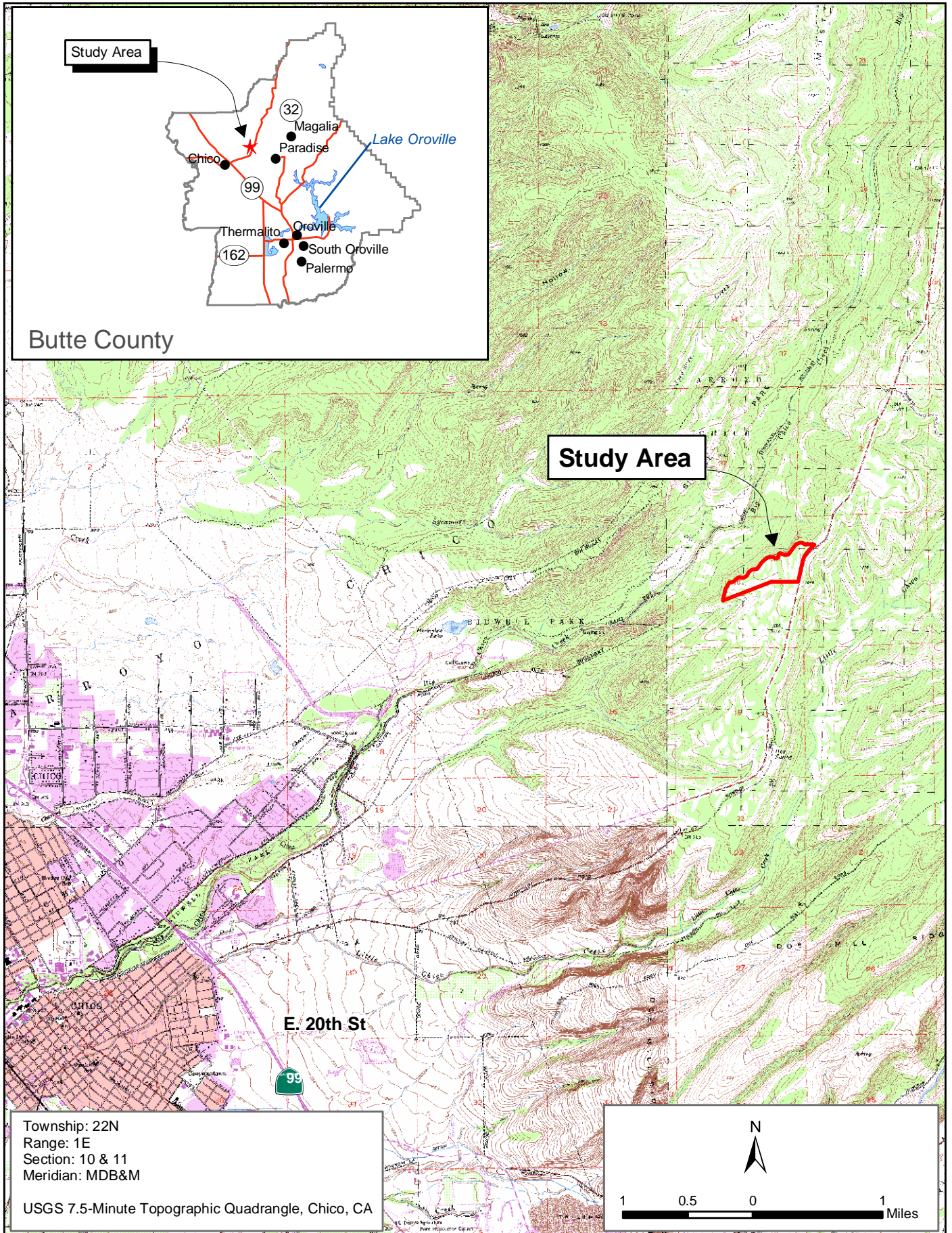


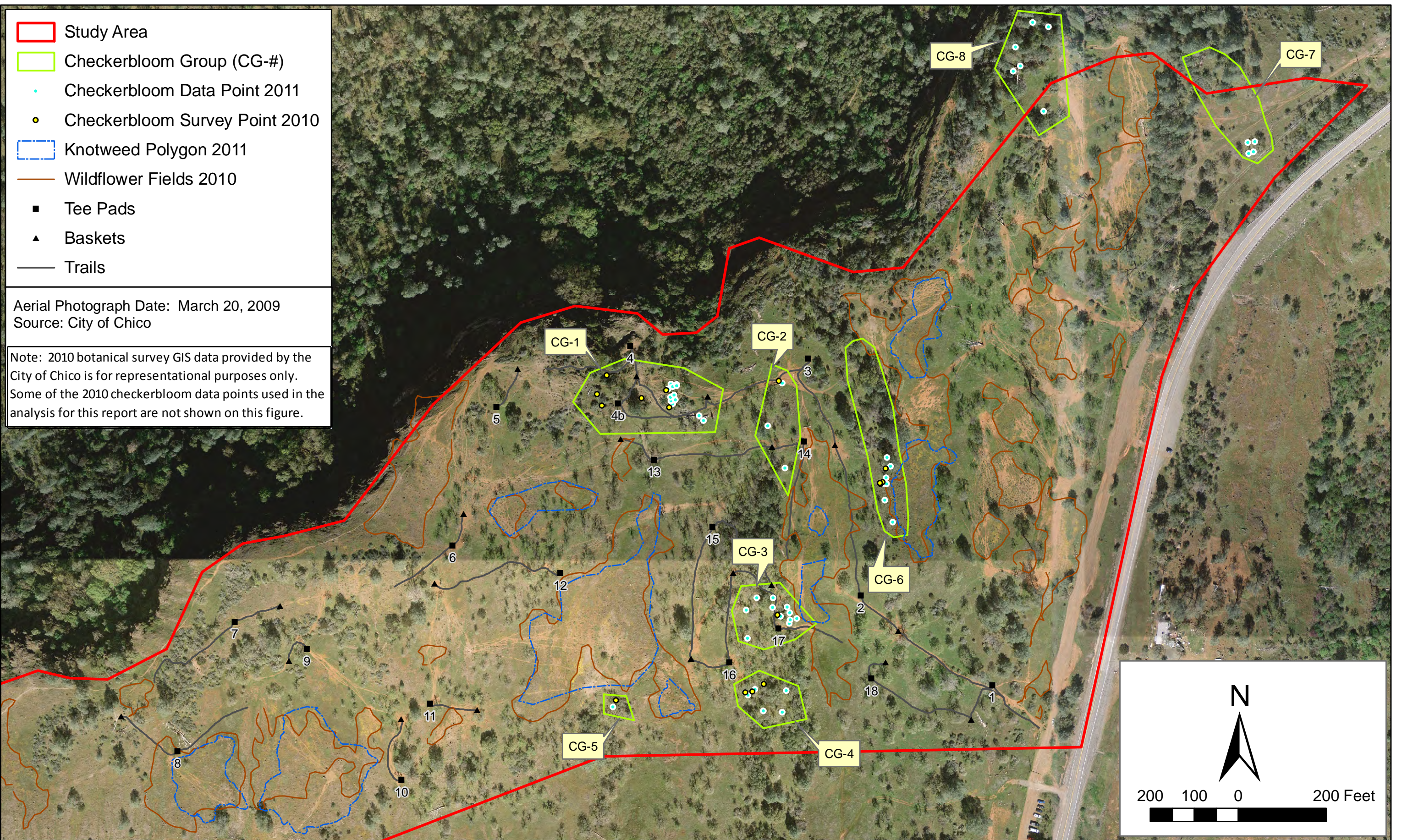
Figure 1
Study Area Location and Vicinity



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Figure 2
Checkerbloom and Knotweed Locations - 2011 Survey

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- Study Area
- Checkerbloom Group (CG-#)
- Checkerbloom Data Point 2011
- Checkerbloom Survey Point 2010
- Knotweed Polygon 2011
- Wildflower Fields 2010
- Tee Pads
- ▲ Baskets
- Trails

Aerial Photograph Date: March 20, 2009
 Source: City of Chico

Note: 2010 botanical survey GIS data provided by the City of Chico is for representational purposes only. Some of the 2010 checkerbloom data points used in the analysis for this report are not shown on this figure.

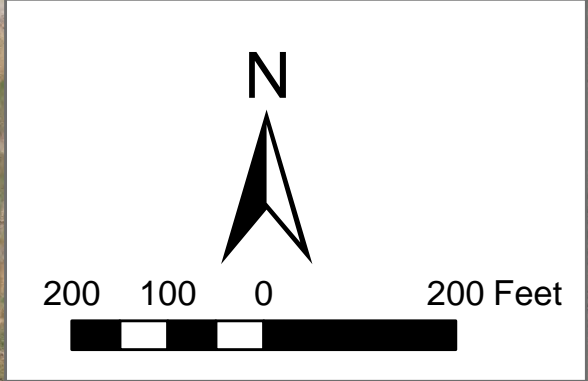


Figure 3
Comparison of 2011 and 2010 Botanical Monitoring

**Appendix E – Foothill Associates. 2012. Upper Bidwell Park Peregrine Point Disc Golf Course Baseline (Year 1) Oak Tree Monitoring and Assessment Report.
March 15, 2012. Chico, CA.**

DRAFT



March 15, 2012

Mr. Dan Efseaff
Department of Parks and Natural Resources
City of Chico
965 Fir Street
Chico, CA 95928

RE: Upper Bidwell Park Peregrine Point Disc Golf Course Baseline (Year 1) Oak Tree Monitoring and Assessment Report

Dear Mr. Efseaff:

This document summarizes the results of data collection pertaining to an oak tree (*Quercus* spp.) assessment performed along portions of an established transect within the boundaries of the Peregrine Point Disc Golf Course in Upper Bidwell Park, Chico, California (**Attachment A**). The Peregrine Point Disc Golf Course is located adjacent to State Highway 32 near the eastern limits of the City of Chico on the west side of State Highway 32 in Butte County, California. The purpose of this report is to present oak tree assessment data pertaining to the condition, exhibited impacts, species, and size of oak trees within the disc golf course boundaries. This initial assessment data will serve as a baseline of statistical information for long-term management and monitoring of oak trees potentially impacted by the affects of use by disc golfers at the Peregrine Point Disc Golf Course.

METHODS

Priority 1 Oak Trees

The Peregrine Point Disc Golf Course was surveyed on foot by Scott Gregory, International Society of Arboriculture (ISA) Certified Arborist (WE-9041A) on September 8, 2011. Priority 1 oaks identified by the City of Chico as having the greatest potential for impact by discs were located using existing Geographic Information Systems (GIS) data collected by City of Chico personnel. Priority 1 oaks were tagged using aluminum tree tags, which were nailed to trees and numbered according to the course hole number and proximity to each hole's tee box. For example, two oaks documented in Hole 9, would be denoted as 09-001 and 09-002, with the lowest number representing the oak closest to the 9th tee box.

Priority 1 trees were assessed for species, diameter at breast height (DBH) class, height class, growth form, crown width, overall tree condition, presence within course boundaries, percent of trunk exhibiting impact marks, percent of canopy exhibiting dead

wood, number of broken branches in the canopy, and the number of locations where the cork cambium is dead on each tree.

Interrupted Belt Transect Oak Trees

During the same field survey, an interrupted belt transect was established between the course entrance and Hole 5 tee box. Four (4) permanent quadrants (25meters x 4meters) were created along the transect length. At the beginning of each quadrant, a GPS waypoint was generated and the physical location of the transect starts were marked using aluminum tree tags. The transect established is denoted as Transect 01, with the four belt quadrants are denoted as 01-001, 01-002, 01-003, and 01-004, respectively from east to west. The numbering system used in this survey was setup in a format to accommodate the addition of more survey trees and/or transects should monitoring results predicate this need.

Oaks within the transect quadrants were assessed using the same parameters as described above for priority trees and were additionally noted to be “in” or “out” of the courses’ hole boundaries. The location of each transect tree relative to the start of the respective quadrant was documented.

Reference Trees

On December 21, 2011, a second field survey was conducted and 52 reference trees were assessed and demarcated in the field for further monitoring and comparison to trees assessed as Priority 1 oak trees and trees associated with the interrupted belt transect. Data parameters collected for the reference tree population were identical as those parameters collected for the Priority 1 oak trees discussed above.

Data Collection

Field data was collected primarily by using a Trimble handheld GPS devise and data dictionary application, and data sheets, developed through collaboration between Foothill Associates and the City of Chico.

RESULTS

Priority 1 Oak Trees

Priority 1 oak trees designated by the City of Chico were comprised of 32 blue oak (*Quercus douglasii*) and one interior live oak (*Quercus wislizenii*) trees. Field data collected on this sample of trees associated with the Peregrine Point Disc Golf Course is summarized as follows (n = 33).

Interrupted Belt Transect Oaks

Along the four tree transects comprising the sample area for the interrupted belt transect, nine blue oak trees were assessed. Data associated with these nine trees is presented below (n = 9).

Reference Trees

Within the course, 52 reference trees were assessed comprised of 44 blue oak trees and 8 interior live oak trees. Data associated with these 52 reference trees is presented below in (n = 52).

Table 1 — Percent Composition of Diameter Classes among Oaks

DBH (inches)	Percent of Priority 1 Population (%)	Percent of Transect Population (%)	Percent of Reference Population (%)
0-6	6.1	11.1	23.1
6-12	66.7	55.6	53.8
12-18	12.1	22.2	13.5
18-24	9.1	0.0	9.6
24-30	3.0	11.1	0.0
>30	3.0	0.0	0.0

Table 2 — Percent Composition of Height Classes among Oaks

Height (feet)	Percent of Priority 1 Population (%)	Percent of Transect Population (%)	Percent of Reference Population (%)
<5	0.0	0.0	11.5
5-10	0.0	0.0	55.8
10-15	9.1	28.6	19.2
>15	90.9	77.8	13.5

Table 3 — Percent Composition of Condition Classes among Oaks

Condition	Percent of Priority 1 Population (%)	Percent of Transect Population (%)	Percent of Reference Population (%)
Excellent	0.0	0.0	0.0
Good	6.1	0.0	13.5
Fair	63.6	44.4	61.5
Poor	30.3	55.6	25.0
Dead	0.0	0.0	0.0

Table 4 — Percent Composition of Trunk Impacts among Oaks

Percent Trunk Impacted	Percent of Priority 1 Population (%)	Percent of Transect Population (%)	Percent of Reference Population (%)
0	0.0	66.7	76.9
1-25	45.5	33.3	19.2
26-50	33.3	0.0	1.9
51-75	21.2	0.0	1.9
>75	0.0	0.0	0.0

Table 5 — Percent Composition of Dead Canopy Classes among Oaks

Percent Dead Canopy	Percent of Priority 1 Population (%)	Percent of Transect Population (%)	Percent of Reference Population (%)
0	6.1	0.0	1.9
1-25	84.8	88.9	82.7
26-50	9.1	0.0	13.5
51-75	0.0	11.1	1.9
>75	0.0	0.0	0.0

Table 6 — Percent Composition of Broken Branch Count among Oaks

Number of Broken Branches	Percent of Priority 1 Population (%)	Percent of Transect Population (%)	Percent of Reference Population (%)
0	12.1	44.4	36.5
1	30.3	22.2	7.7
2	24.2	22.2	15.4
3	6.1	11.1	9.6
4	15.2	0.0	7.7
5	0.0	0.0	3.9
6	3.0	0.0	9.6
7	3.0	0.0	1.9
8	6.1	0.0	5.8
9	0.0	0.0	1.9
≥10	0.0	0.0	0.0

Table 7 — Percent Composition of Damaged Bark Patch Count among Oaks

Number of Damaged Bark Patches	Percent of Priority 1 Population (%)	Percent of Transect Population (%)	Percent of Reference Population (%)
0	54.5	66.7	90.4
1	33.3	0.0	9.6
2	12.1	11.1	0.0
3	0.0	11.1	0.0
4	0.0	11.1	0.0
5	0.0	0.0	0.0
6	0.0	0.0	0.0
7	0.0	0.0	0.0
8	0.0	0.0	0.0
9	0.0	0.0	0.0
≥10	0.0	0.0	0.0

DISCUSSION

This report represents the first year of data collection and establishment of baseline conditions for 94 native oak trees which occur on and within proximity to the Peregrine Point Disc Golf Course. These trees will be evaluated, initially on an annual basis, to monitor the potential affects disc golf use in Bidwell Park has on the localized oak tree population.

A noticeable trend in this years' data set indicates trees within the course and considered priority trees have higher levels of trunk quadrants showing impacts than trees outside the course. This trend would seem quite predictable as trees in the "line of fire" for throwing the disc within the course would predictably be more often hit with discs, than reference trees outside the course.

Although trees within the course do receive damage from discs, it does not appear these impacts affect their overall condition, which is relatively similar through all data sets collected (i.e. Priority 1 trees, Belt Transect Trees, and Reference Trees). Most trees showing poor health associated with the data set, were larger (12-18" DBH) trees that would presumably be senescing.

One considerable limitation to evaluation of reference tree condition was the timing of the survey, as in December blue oak trees were no longer holding their leaves (they are a deciduous species). Now that the initial data set has been established, in the future it would be logical to collect all tree data within the same season, or field visit.

If you have any questions, please contact me at (530) 893-6700 or by email at ryan.brown@foothill.com.

Sincerely,



Ryan Brown, Regulatory Biologist
ISA Certified Arborist #WE-7377A

Enclosure:

Attachment A — Data Tables

cc: Denice Britton, Urban Forest Manager, City of Chico

Attachment A — Data Tables

City of Chico Peregrine Point Disc Golf Course Oak Assessment Priority 1 Trees

Page 1 of 2

Date: 9 / 8 / 2011

Observer: SG

Tree ID	Within course?	DBH (inches)	Tree Height (feet)	Condition (A-E)	# Trunk quadrants showing impacts (A-E)	# Damaged bark patches on trunk (0 - ≥10)	% Dead canopy (A-E)	# Broken branches in canopy (0 - ≥10)	Species	Growth form (T/S)	Crown Width (feet)	Comments
01-001	Y	6-12	10-20 (18)	C	C	1	B (10)	0	QUDO	T	20	>10 impacts on declining branch above trail
01-002	Y	18-24 (22)	20-30 (24)	C	D	1	B (5)	1	QUDO	T	32	Fire scars on trunk
01-003	Y	18-24 (22)	>30 (32)	C	D	1	B (5)	1	QUDO	T	40	Fire scars on trunk; nest cavity
01-004	Y	6-12 (11)	>30 (32)	C	D	1	B (5)	2	QUDO	T	25	Mistletoe
02-001	Y	6-12 (9)	20-30 (22)	D	D	0	B (20)	7	QUDO	T	9	
02-002	Y	6-12 (10)	10-20 (16)	D	C	0	C (40)	1	QUDO	T	17	
03-001	Y	6-12 (10)	20-30 (20)	C	C	0	B (5)	0	QUDO	T	22	
03-002	Y	6-12 (7)	10-20 (12)	D	B	0	B (20)	1	QUDO	T	8	Declining condition
09-001	Y	0-6 (5)	10-20 (18)	D	C	0	B (20)	1	QUDO	T	15	
09-002	Y	6-12 (7)	10-20 (14)	C	C	0	A (0)	1	QUDO	T	16	2 stems
10-001	Y	12-18 (8,7)	10-20 (16)	C	D	0	B (5)	1	QUDO	T	18	3 stems; 7" dead leader not included
11-001	Y	24-30 (9,9,7)	10-20 (18)	D	C	0	C (40)	4	QUDO	T	15	2 stems
11-002	Y	12-18 (8,8)	10-20 (18)	D	B	2	B (15)	4	QUDO	T	16	
11-003	Y	24-30 (25)	>30 (32)	B	C	1	B (5)	2	QUDO	T	30	
11-004	Y	6-12 (11)	20-30 (20)	C	C	1	B (5)	2	QUDO	T	16	
12-001	Y	6-12 (8)	10-20 (18)	C	C	1	A (0)	0	QUDO	T	18	
12-002	Y	6-12 (10)	20-30 (26)	D	B	1	B (10)	0	QUDO	T	10	

DBH (in)(trunk dia. 4.5' above ground level): 0-6", 6-12", 12-18", 18-24", 24-30", >30"; **Tree height (ft):** <10', 10-20', 20-30', >30'; **Condition:** A = Excellent, B = Good, C = Fair, D = Poor, E = Dead; **# of trunk quadrants impacted:** A = 0 quads; B = 1 quad; C = 2 quads; D = 3 quads; E = 4 quads; **# of damaged patches in trunk bark:** 0 - ≥10; **% of canopy that is dead:** A = 0% dead, B = 1-25%; C = 26-50%; D = 51-75%; E = >75%; **Broken branches in canopy:** direct count, 0 - ≥10; **Species:** QUODO = blue oak; QUWI = interior live oak; QULO = valley oak; **Growth Form:** T = tree, S = shrub; **Crown width (ft):** measured along north-south azimuth.

City of Chico Peregrine Point Disc Golf Course Oak Assessment Priority 1 Trees

Observer: SG

Tree ID	Within course?	DBH	Tree Height	Condition	# Trunk quadrants showing impacts	# Damaged bark patches on trunk	% Dead canopy	# Broken branches in canopy	Species	Growth form	Crown Width	Comments
(Hole# - xxx)	(Y/N)	(inches)	(feet)	(A-E)	(A-E)	(0 - ≥10)	(A-E)	(0 - ≥10)	(T/S)	(feet)		
12-003	Y	12-18 (14)	>30 (32)	C	C	2	B (10)	3	QUDO	T	24	
12-004	Y	0-6 (5)	10-20 (12)	C	B	0	B (5)	1	QUDO	T	8	Mistletoe
12-005	Y	6-12 (6)	20-30 (20)	C	B	0	B (5)	2	QUDO	T	10	
12-006	Y	6-12 (7)	20-30 (20)	C	B	0	B (5)	2	QUDO	T	10	
12-007	Y	6-12 (10)	20-30 (20)	C	B	1	B (5)	2	QUDO	T	18	Mistletoe
13-001	Y	12-18 (15)	20-30 (22)	C	C	0	B (15)	1	QUDO	T	27	
13-002	Y	12-18 (9,6)	20-30 (20)	C	B	0	B (5)	2	QUDO	T	24	2 stems
13-003	Y	6-12 (9)	20-30 (20)	C	B	0	B (5)	1	QUDO	T	14	
14-001	Y	18-24 (8,11)	10-20 (16)	D	B	2	C (45)	4	QUDO	T	22	2 stems
14-002	Y	12-18 (7,7)	20-30 (20)	C	B	0	B (10)	8	QUDO	T	15	2 stems
14-003	Y	>30	20-30 (24)	B	B	0	B (5)	3	QUWI	T	30	14 stems, 40" basal dia.
16-001	Y	12-18 (12)	>30 (32)	C	B	0	B (10)	4	QUDO	T	24	
16-002	Y	6-12 (10)	>30 (32)	C	B	1	B (20)	4	QUDO	T	20	
17-001	Y	12-18 (16)	10-20 (18)	D	B	1	B (10)	2	QUDO	T	20	Decay in trunk
18-001	Y	6-12 (7)	10-20 (14)	D	B	2	B (10)	6	QUDO	T	13	
18-002	Y	18-24 (22)	>30 (32)	C	D	0	B (10)	8	QUDO	T	37	

DBH (in)(trunk dia. 4.5' above ground level): 0-6", 6-12", 12-18", 18-24", 24-30", >30"; **Tree height (ft):** <10', 10-20', 20-30', >30'; **Condition:** A = Excellent, B = Good, C = Fair, D = Poor, E = Dead; **# of trunk quadrants impacted:** A = 0 quads; B = 1 quad; C = 2 quads; D = 3 quads; E = 4 quads; **# of damaged patches in trunk bark:** 0 - ≥10; **% of canopy that is dead:** A = 0% dead, B = 1-25%; C = 26-50%; D = 51-75%; E = >75%; **Broken branches in canopy:** direct count, 0 - ≥10; **Species:** QUODO = blue oak; QUWI = interior live oak; QULO = valley oak; **Growth Form:** T = tree, S = shrub; **Crown width (ft):** measured along north-south azimuth.

City of Chico Peregrine Point Disc Golf Course Oak Assessment Interrupted Belt Transect

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Date: 9/8/2011

Transect # - Quadrant # 01 - 001

Observer: SG

Distance from quadrant start	Within course?	DBH	Tree Height	Condition	# Trunk quadrants showing impacts	# Damaged bark patches on trunk	% Dead canopy	# Broken branches in canopy	Species	Growth form	Crown Width	Comments
(feet)	(Y/N)	(inches)	(feet)	(A-E)	(A-E)	(0-≥10)	(A-E)	(0-≥10)	(T/S)	(feet)		
0	Y	6-12 (9)	20-30	C	B	4	B (5)	3	QUDO	T	24	Transect start
5	N	0-6 (4)	10-20 (14)	C	B	2	B (10)	0	QUDO	T	15	
9	N	6-12 (8)	20-30	C	B	3	B (10)	2	QUDO	T	24	
74	Y	24-30 (25)	20-30	D	A	0	B (5)	0	QUDO	T	42	Decay/hollows in main scaffolds

DBH (in)(trunk dia. 4.5' above ground level): 0-6", 6-12", 12-18", 18-24", 24-30", >30"; **Tree height (ft):** <10', 10-20', 20-30', >30'; **Condition:** A = Excellent, B = Good, C = Fair, D = Poor, E = Dead; **# of trunk quadrants impacted:** A = 0 quads; B = 1 quad; C = 2 quads; D = 3 quads; E = 4 quads; **# of damaged patches in trunk bark:** 0 - ≥10; **% of canopy that is dead:** A = 0% dead, B = 1-25%, C = 26-50%, D = 51-75%; E = >75%; **Broken branches in canopy:** direct count, 0 - ≥10; **Species:** QUUDO = blue oak; QUWI = interior live oak; QULO = valley oak; **Growth Form:** T = tree, S = shrub; **Crown width (ft):** measured along north-south azimuth.

Date: 9/8/2011

Interrupted Belt Transect

Transect # - Quadrant # 01 - 002 Observer: SG

Distance from quadrant start	(Y/N)	DBH (inches)	Tree Height (feet)	Condition (A-E)	# Trunk quadrants showing impacts (A-E)	# Damaged bark patches on trunk (0-≥10)	# Broken branches in canopy (0-≥10)	Species	Growth form	Crown Width	Comments
(feet)				(A-E)	(A-E)	(0-≥10)	(A-E)	(0-≥10)	(T/S)	(feet)	
0	N	12-18 (12)	>30 (35)	D	A	0	B (20)	2	QUDO	24	Transect start
71	N	6-12 (10)	20-30	C	A	0	B (10)	1	QUDO	15	

DBH (in)(trunk dia. 4.5' above ground level): 0-6", 6-12", 12-18", 18-24", 24-30", >30"; **Tree height (ft):** <10', 10-20', 20-30', >30'; **Condition:** A = Excellent, B = Good, C = Fair, D = Poor, E = Dead; **# of trunk quadrants impacted:** A = 0 quads; B = 1 quad; C = 2 quads; D = 3 quads; E = 4 quads; **# of damaged patches in trunk bark:** 0 - ≥10; **% of canopy that is dead:** A = 0% dead, B = 1-25%; C = 26-50%; D = 51-75%; E = >75%; **Broken branches in canopy:** direct count, 0 - ≥10; **Species:** QUDO = blue oak; QUWI = interior live oak; QULO = valley oak; **Growth Form:** T = tree, S = shrub; **Crown width (ft):** measured along north-south azimuth.

City of Chico Peregrine Point Disc Golf Course Oak Assessment Interrupted

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Belt Transect

Date: 9 / 8 / 2011

Transect # - Quadrant # 01 - 003

Observer: SG

Distance from quadrant start (feet)	Within course? (Y/N)	DBH (inches)	Tree Height (feet)	Condition (A-E)	# Trunk quadrants showing impacts (A-E)	# Damaged bark patches on trunk (0 - ≥10)	% Dead canopy (A-E)	# Broken branches in canopy (0 - ≥10)	Species (T/S)	Growth form (T/S)	Crown Width (feet)	Comments
0	N	12-18 (15)	20-30 (28)	D	A	0	D (70)	0	QUDO	T	30	Transect start, dying/in decline

DBH (in)(trunk dia. 4.5' above ground level): 0-6", 6-12", 12-18", 18-24", 24-30", >30"; **Tree height (ft)**: <10', 10-20', 20-30', >30'; **Condition**: A = Excellent, B = Good, C = Fair, D = Poor, E = Dead; **# of trunk quadrants impacted**: A = 0 quads; B = 1 quad; C = 2 quads; D = 3 quads; E = 4 quads; **# of damaged patches in trunk bark**: 0 - ≥10; **% of canopy that is dead**: A = 0% dead, B = 1-25%; C = 26-50%; D = 51-75%; E = >75%; **Broken branches in canopy**: direct count, 0 - ≥10; **Species**: QUDO = blue oak; QUWI = interior live oak; QULO = valley oak; **Growth Form**: T = tree, S = shrub; **Crown width (ft)**: measured along north-south azimuth.

City of Chico Peregrine Point Disc Golf Course Oak Assessment
Interrupted Belt Transect

Page 4 of 4

Date: 9 / 8 / 2011

Observer: SG

Transect # - Quadrant # 01 - 004

Distance from quadrant start	Within course?	DBH	Tree Height	Condition	# Trunk quadrants showing impacts	# Damaged bark patches on trunk	% Dead canopy	# Broken branches in canopy	Species	Growth form	Crown Width	Comments
(feet)	(Y/N)	(inches)	(feet)	(A-E)	(A-E)	(0-≥10)	(A-E)	(0-≥10)	(T/S)	(feet)		
0	N	6-12 (9)	10-20 (15)	D	A	0	B	1	QUDO	T	10	Transect start, in decline
35	N	20-30 (20)	20-30 (20)	D	A	0	B	0	QUDO	T	10	

DBH (in)(trunk dia. 4.5' above ground level): 0-6", 6-12", 12-18", 18-24", 24-30", >30"; **Tree height (ft):** <10', 10-20', 20-30', >30'; **Condition:** A = Excellent, B = Good, C = Fair, D = Poor, E = Dead; **# of trunk quadrants impacted:** A = 0 quads; B = 1 quad; C = 2 quads; D = 3 quads; E = 4 quads; **# of damaged patches in trunk bark:** 0 - <=10; **% of canopy that is dead:** A = 0% dead, B = 1-25%, C = 26-50%, D = 51-75%, E = >75%; **Broken branches in canopy:** direct count, 0 - <=10; **Species:** QUDO = blue oak; QUWI = interior live oak; QULO = valley oak; **Growth Form:** T = tree, S = shrub; **Crown width (ft):** measured along north-south azimuth.

City of Chico Peregrine Point Disc Golf Course Oak Assessment Reference Sample

Observer: SG

Tree ID	Within course?	DBH (inches)	Tree Height (feet)	Condition (A-E)	# Trunk quadrants showing impacts	Damaged bark patches on trunk	% Dead canopy	# Broken branches in canopy	Species	Growth form	Crown Width	Comments
(Hole# - xxx)	(Y/N)	(inches)	(feet)	(A-E)	(A-E)	(0 - ≥10)	(A-E)	(0 - ≥10)	(T/S)	(feet)		
R01-001	N	22	22	Fair	0 Quads	0	1-25%	9	Blue Oak	Tree	24	
R01-002a	N	5	15	Fair	0 Quads	0	1-25%	0	Blue Oak	Tree	20	
R01-002b	N	5	15	Fair	0 Quads	0	1-25%	0	Blue Oak	Tree	20	
R01-002c	N	5	15	Fair	0 Quads	0	1-25%	0	Blue Oak	Tree	20	
R01-003	N	10	15	Fair	1 Quad	1	1-25%	5	Blue Oak	Tree	18	
R02-001a	N	6	14	Poor	0 Quads	0	26-50%	6	Blue Oak	Tree	13	
R02-001b	N	7	14	Poor	0 Quads	0	26-50%	6	Blue Oak	Tree	13	
R03-001	N	6	15	Poor	1 Quad	0	1-25%	3	Blue Oak	Tree	10	
R04-001	N	9	18	Fair	0 Quads	0	1-25%	3	Blue Oak	Tree	16	
R04-002a	N	12	32	Good	0 Quads	0	1-25%	2	Int. Live Oak	Tree	55	
R04-002b	N	19	32	Good	0 Quads	0	1-25%	2	Int. Live Oak	Tree	55	
R04-002c	N	13	32	Good	0 Quads	0	1-25%	2	Int. Live Oak	Tree	55	
R04-002d	N	21	32	Good	0 Quads	0	1-25%	2	Int. Live Oak	Tree	55	
R05-001a	N	8	15	Poor	0 Quads	0	26-50%	8	Blue Oak	Tree	16	
R05-001b	N	8	15	Poor	0 Quads	0	26-50%	8	Blue Oak	Tree	16	
R05-002	N	9	16	Poor	0 Quads	0	1-25%	4	Blue Oak	Tree	14	
R05-003	N	9	18	Poor	0 Quads	0	26-50%	3	Blue Oak	Tree	11	

DBH (in)(trunk dia. 4.5' above ground level): 0-6", 6-12", 12-18", 18-24", 24-30", >30"; **Tree height (ft):** <10', 10-20', 20-30', >30'; **Condition:** A = Excellent, B = Good, C = Fair, D = Poor, E = Dead; **# of trunk quadrants impacted:** A = 0 quads; B = 1 quad; C = 2 quads; D= 3 quads; E = 4 quads; **# of damaged patches in trunk bark:** 0 - ≥10; **% of canopy that is dead:** A = 0% dead, B = 1-25%; C = 26-50%; D = 51-75%; E = >75%; **Broken branches in canopy:** direct count, 0 - ≥10; **Species:** QUDO = blue oak; QUWI = interior live oak; QULO = valley oak; **Growth Form:** T = tree, S = shrub; **Crown width (ft):** measured along north-south azimuth.

City of Chico Peregrine Point Disc Golf Course Oak Assessment Reference Sample

Tree ID	Within course?	DBH (inches)	Tree Height (feet)	Condition (A-E)	# Trunk quadrants showing impacts	# Damaged bark patches on trunk	% Dead canopy	# Broken branches in canopy	Species	Growth form	Crown Width	Comments
(Hole# - xxx)	(Y/N)	(inches)	(feet)	(A-E)	(A-E)	(0 - ≥10)	(A-E)	(0 - ≥10)	(T/S)	(feet)		
R05-004a	N	8	15	Fair	0 Quads	0	1-25%	2	Blue Oak	Tree	25	
R05-004b	N	6	15	Fair	0 Quads	0	1-25%	2	Blue Oak	Tree	25	
R05-005	N	7	12	Poor	0 Quads	0	1-25%	4	Blue Oak	Tree	14	
R06-001a	N	10	20	Fair	1 Quad	0	1-25%	0	Blue Oak	Tree	24	
R06-001b	N	9	20	Fair	1 Quad	0	1-25%	0	Blue Oak	Tree	24	
R06-002	N	15	26	Poor	0 Quads	0	1-25%	3	Blue Oak	Tree	20	
R06-003	N	9	20	Fair	0 Quads	0	1-25%	0	Blue Oak	Tree	16	
R07-001	N	11	22	Fair	0 Quads	0	1-25%	3	Blue Oak	Tree	18	
R08-001	N	2	6	Fair	0 Quads	0	1-25%	0	Int. Live Oak	Shrub	6	
R08-002a	N	12	18	Fair	0 Quads	0	1-25%	0	Blue Oak	Tree	20	
R08-002b	N	5	18	Fair	0 Quads	0	1-25%	0	Blue Oak	Tree	20	
R08-002c	N	9	18	Fair	0 Quads	0	1-25%	0	Blue Oak	Tree	20	
R09-001	N	16	18	Poor	1 Quad	0	51-75%	6	Blue Oak	Tree	12	
R09-002	N	9	20	Fair	0 Quads	0	1-25%	4	Blue Oak	Tree	10	
R09-003	N	6	17	Fair	1 Quad	1	1-25%	0	Blue Oak	Tree	9	
R10-001	N	15	16	Fair	2 Quads	1	1-25%	2	Blue Oak	Tree	21	
R11-001	N	13	22	Good	0 Quads	0	1-25%	5	Blue Oak	Tree	20	

DBH (in)(trunk dia. 4.5' above ground level): 0-6", 6-12", 12-18", 18-24", 24-30", >30"; **Tree height (ft):** <10', 10-20', 20-30', >30"; **Condition:** A = Excellent, B = Good, C = Fair, D = Poor, E = Dead; **# of trunk quadrants impacted:** A = 0 quads; B = 1 quad; C = 2 quads; D = 3 quads; E = 4 quads; **# of damaged patches in trunk bark:** 0 - ≥10; **% of canopy that is dead:** A = 0% dead, B = 1-25%; C = 26-50%; D = 51-75%; E = >75%; **Broken branches in canopy:** direct count, 0 - ≥10; **Species:** QUDO = blue oak; QUWI = interior live oak; QULO = valley oak; **Growth Form:** T = tree, S = shrub; **Crown width (ft):** measured along north-south azimuth.

City of Chico Peregrine Point Disc Golf Course Oak Assessment Reference Sample

Page 3 of 3
Date: 12/21/2011
Observer: SG

Tree ID	Within course?	DBH (inches)	Tree Height (feet)	Condition (A-E)	# Trunk quadrants showing impacts (A-E)	# Damaged bark patches on trunk (0-≥10)	% Dead canopy (A-E)	# Broken branches in canopy (0-≥10)	Species	Growth form	Crown Width (feet)	Comments
(Hole# - xxx)	(Y/N)	(inches)	(feet)	(A-E)	(A-E)	(0-≥10)	(A-E)	(0-≥10)	(T/S)	(T/S)	(feet)	
R12-001a	N	9	22	Fair	0 Quads	0	1-25%	1	Blue Oak	Tree	15	
R12-001b	N	9	22	Fair	0 Quads	0	1-25%	1	Blue Oak	Tree	15	
R12-002	N	0	16	Poor	1 Quad	0	26-50%	4	Blue Oak	Tree	8	
R12-003	N	24	28	Good	3 Quads	1	1-25%	8	Blue Oak	Tree	35	
R13-001a	N	9	19	Fair	0 Quads	0	1-25%	6	Blue Oak	Tree	21	
R13-001b	N	7	19	Fair	0 Quads	0	1-25%	6	Blue Oak	Tree	21	
R14-001a	N	8	26	Fair	1 Quad	0	1-25%	0	Blue Oak	Tree	18	
R14-001b	N	8	26	Fair	1 Quad	0	1-25%	0	Blue Oak	Tree	18	
R14-002a	N	14	30	Fair	0 Quads	0	1-25%	1	Int. Live O	Tree	35	
R14-002b	N	7	30	Fair	0 Quads	0	1-25%	1	Int. Live O	Tree	35	
R14-002c	N	7	30	Fair	0 Quads	0	1-25%	1	Int. Live O	Tree	35	
R15-001a	N	6	14	Poor	0 Quads	0	1-25%	0	Blue Oak	Tree	9	
R15-001b	N	6	14	Poor	0 Quads	0	1-25%	0	Blue Oak	Tree	9	
R15-002	N	20	18	Fair	1 Quad	1	1-25%	1	Blue Oak	Tree	28	
R16-001	N	11	32	Fair	0 Quads	0	26-50%	2	Blue Oak	Tree	16	
R17-001	N	18	26	Good	0 Quads	0	1-25%	7	Blue Oak	Tree	34	
R17-002	N	10	16	Fair	0 Quads	0	1-25%	0	Blue Oak	Tree	16	
R17-003	N	3	12	Fair	0 Quads	0	0%	0	Blue Oak	Tree	7	

DBH (in)(trunk dia. 4.5' above ground level): 0-6", 6-12", 12-18", 18-24", 24-30", >30"; **Tree height (ft):** <10', 10-20', 20-30', >30'; **Condition:** A = Excellent, B = Good, C = Fair, D = Poor, E = Dead; **# of trunk quadrants impacted:** A = 0 quads; B = 1 quad; C = 2 quads; D = 3 quads; E = 4 quads; **# of damaged patches in trunk bark:** 0 - ≥10; **% of canopy that is dead:** A = 0% dead, B = 1-25%; C = 26-50%; D = 51-75%; E = >75%; **Broken branches in canopy:** direct count, 0 - ≥10; **Species:** QUDO = blue oak; QUWI = interior live oak; QULO = valley oak; **Growth Form:** T = tree, S = shrub; **Crown width (ft):** measured along north-south azimuth.

Appendix F – Statistical Analysis

4/24/2012 10:57:10 AM

Welcome to Minitab, press F1 for help.

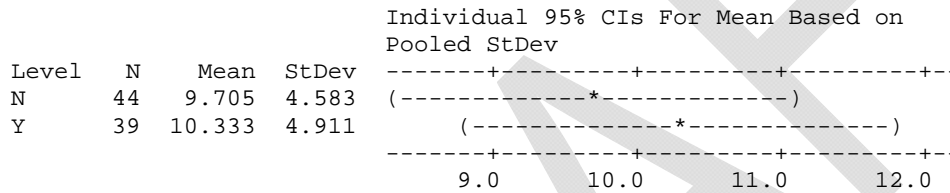
Retrieving project from file:

'S:\PARK\PROGRAMS\MONITORING\PEREGRINE_DISC_GOLF_COURSE\DATA\2011_PPDG_TREE_12_0403.MPJ'

One-way ANOVA: DBH_(inches) versus In_course(y/n)

Source	DF	SS	MS	F	P
In_course(y/n)	1	8.2	8.2	0.36	0.548
Error	81	1819.8	22.5		
Total	82	1828.0			

S = 4.740 R-Sq = 0.45% R-Sq(adj) = 0.00%

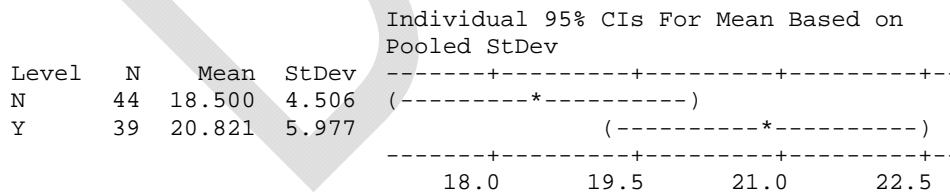


Pooled StDev = 4.740

One-way ANOVA: Tree_Ht_(ft) versus In_course(y/n)

Source	DF	SS	MS	F	P
In_course(y/n)	1	111.3	111.3	4.04	0.048
Error	81	2230.7	27.5		
Total	82	2342.1			

S = 5.248 R-Sq = 4.75% R-Sq(adj) = 3.58%

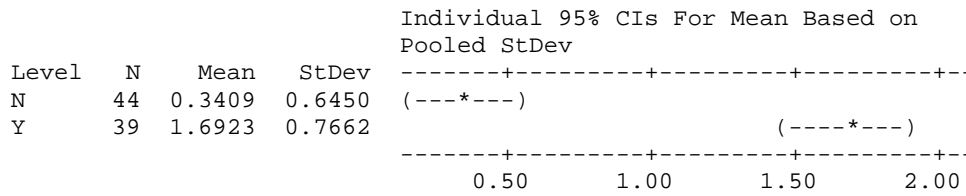


Pooled StDev = 5.248

One-way ANOVA: Trunk_quad_impts_(No) versus In_course(y/n)

Source	DF	SS	MS	F	P
In_course(y/n)	1	37.758	37.758	76.09	0.000
Error	81	40.194	0.496		
Total	82	77.952			

S = 0.7044 R-Sq = 48.44% R-Sq(adj) = 47.80%

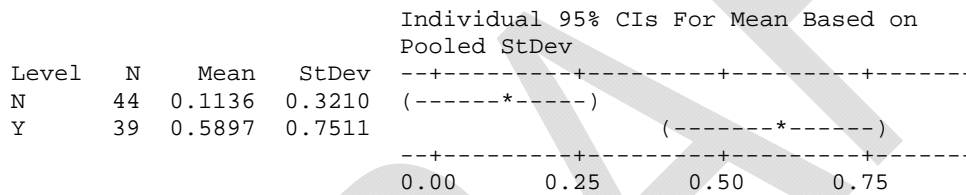


Pooled StDev = 0.7044

One-way ANOVA: Damaged_bark_ptchs_(0->10) versus In_course(y/n)

Source	DF	SS	MS	F	P
In_course(y/n)	1	4.687	4.687	14.67	0.000
Error	81	25.868	0.319		
Total	82	30.554			

S = 0.5651 R-Sq = 15.34% R-Sq(adj) = 14.29%

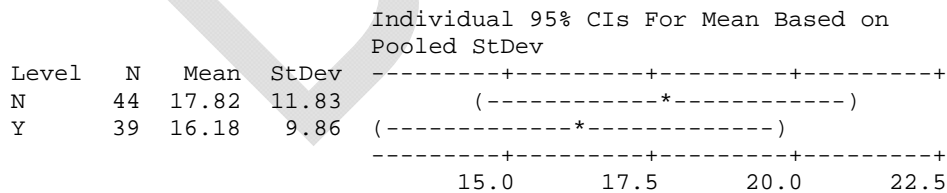


Pooled StDev = 0.5651

One-way ANOVA: Dead_canopy_corrected_(%) versus In_course(y/n)

Source	DF	SS	MS	F	P
In_course(y/n)	1	56	56	0.46	0.498
Error	81	9716	120		
Total	82	9772			

S = 10.95 R-Sq = 0.57% R-Sq(adj) = 0.00%

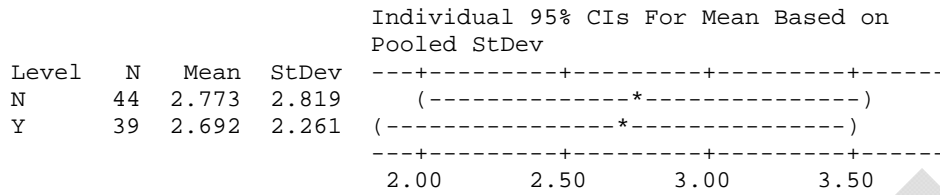


Pooled StDev = 10.95

One-way ANOVA: Broken_branches_(0->10) versus In_course(y/n)

Source	DF	SS	MS	F	P
In_course(y/n)	1	0.13	0.13	0.02	0.887
Error	81	536.03	6.62		
Total	82	536.17			

S = 2.572 R-Sq = 0.02% R-Sq(adj) = 0.00%

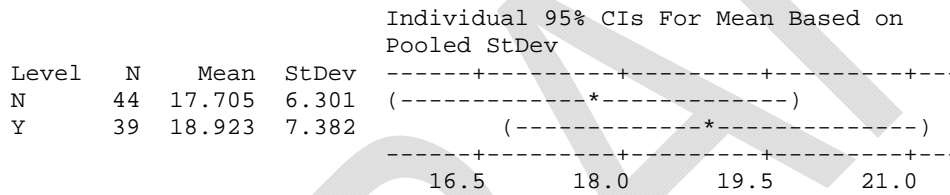


Pooled StDev = 2.572

One-way ANOVA: Crown_Width_(ft) versus In_course(y/n)

Source	DF	SS	MS	F	P
In_course(y/n)	1	30.7	30.7	0.66	0.420
Error	81	3777.9	46.6		
Total	82	3808.6			

S = 6.829 R-Sq = 0.81% R-Sq(adj) = 0.00%



Pooled StDev = 6.829



BPPC Tree Committee Summary Report

Meeting Date: 3/14/12

DATE: March 19, 2012
TO: BIDWELL PARK AND PLAYGROUND COMMISSION
FROM: DENICE F. BRITTON, URBAN FOREST MANAGER, 896-7802
RE: CONTINUED DISCUSSION OF THE URBAN FOREST MANAGEMENT PLAN

1. **CALL TO ORDER:** Chair Mikles called the meeting to order at 6:02 PM

ATTENDEES: Commissioners Present: Chair Mikles, Craig and Herrera.
Public Present: Roger Cole, Susan Mason, Scott Gregory, Robin McCollum, Ted Schwartz, Karen Laslo, Adrienne Edwards, Kristina Schierenbeck, Woody Elliot

2. AGENDA:

2.1 DISCUSSION OF CONCEPTS FOR AN URBAN FOREST MANAGEMENT PLAN

At it's meeting of 2/8/12, the Tree Committee continued discussion and development of an Urban Forest Management Plan. This meeting will continue that discussion with the following specific items to be included:

- a. Using the format and web site toolkit from the CaUFC for the Plan
- b. Definition of an Urban Forest
- c. Draft Vision Statement

DISCUSSION:

1. Staff discussed that for now only authorized team members can review the plan. The Committee suggested that the plan be put in PDF format and posted on the web site, with upgrades each month. Staff will have this completed before the monthly BPPC meeting.

2. Staff submitted a definition of the Chico's Urban Forest for review.

The final wording discussion and agreed to at the meeting is as follows:

"Chico's Urban Forest is made up of trees and related landscapes and vegetation within the City's parks, along the streets and creeks, and within private property. The urban forest provides an essential character to the City that includes aesthetic values, functional and social benefits and ecosystem services to its citizens both individually and as a whole. The elements of the urban forest exist throughout the community, although their care is under several jurisdictions, including both private and governmental entities."

3. The Committee and public discussed a Vision Statement – below is the Vision Statement agreed to: (The vision statement is affirmative and therefore in present tense)

Chico's Forest provides coverage and shade over a large area of the City – creating a continuous forest canopy. This canopy contains trees of all sizes at maturity, is multi-aged and diverse. The forest is healthy and safe, with appropriate tree species planted in appropriate locations and in ideal cultural conditions. Citizens are active partners in our program – they want their trees and forest to be thriving and understand their role in accomplishing this. The Standard of Care for the forest is based on accepted Industry Standards and the concept of enhancing the longevity of the trees within the forest. All City staff and officials are knowledgeable about the Urban Forest Management Plan and use it as a guideline in deliberation regarding project planning and design.

Goals for April Meeting:

1. Staff will present information about the current status of the Urban Forest, so as to guide further discussion and development of a Mission statement.

City Municipal Code sections that pertain to trees can be found on the Street Trees Division web site: http://www.ci.chico.ca.us/general_services_department/park_division/street_trees/

DISTRIBUTION:

Tree-Finance Committee of BPPC
General Services Director
Street Tree Field Supervisor



BPPC Tree Committee Summary Report

Meeting Date: 4/11/12

DATE: April 17, 2012
TO: BIDWELL PARK AND PLAYGROUND COMMISSION
FROM: DENICE F. BRITTON, URBAN FOREST MANAGER, 896-7802
RE: CONTINUED DISCUSSION OF THE URBAN FOREST MANAGEMENT PLAN

1. **CALL TO ORDER:** Chair Mikles called the meeting to order at 6:02 PM

ATTENDEES: Commissioners Present: Chair Mikles, Craig and Herrera.
Public Present: Scott Gregory, Roger Cole, Susan Mason, Robin McCollum, Karen Laslo, Woody Elliot

2. REGULAR AGENDA

a) DISCUSSION OF CONCEPTS FOR AN URBAN FOREST MANAGEMENT PLAN

At its meeting of 3/14/12, the Tree Committee continued discussion and development of an Urban Forest Management Plan, completing review of the Definition of Chico's Urban Forest and developed a Visions statement. Staff will present information on the current state of the Urban Forest to provide a background for analyzing goals of the Urban Forest Management Plan and developing a Mission Statement for the plan.

Information presented was garnered from the database associated with the GIS inventory of street trees within the City. The inventory is a dynamic source of information, because each day tree work is completed and new requests for work are received and analyzed. Therefore, the population of trees changes daily. Depending on how these trees are treated in the analysis, there may be slightly differing numbers each time the database is queried.

The summary of work hours for the street tree crew from 2011 was included from the Annual Report. This provided a perspective of which activities are given actual priority from a time management perspective.

DISCUSSION:

Items that were brought up in the discussion included:

1. Given that the information presented only includes the City's Street Tree population, it will be important to find ways to bring into the Management Plan trees that are owned and managed by other entities, such as trees in private yards or commercial developments, and in facilities owned by CARD, the County, the University and others. If nothing else, these trees should at least be considered and included in expanded educational programs to encourage citizen participation and improve tree care through out the City.
2. An ordinance against tree topping was suggested.

3. Where possible, it was suggested that tree preservation on new projects be brought forth as a standard condition of approval for projects.
4. Provide additional data where possible:
 - a. Species data by work zones to guide the planting of new tree and species
 - b. Analyze and develop tree pruning standards and production standards for the tree crew.
 - c. Make hazard reduction a high priority for work to be completed.
 - d. Require properties that become vacant due to economic or other conditions to maintain the landscapes and especially the trees on the site. This would likely require a new ordinance.
5. There was a concern the number of young trees is not the largest sector of the population. The Management Plan needs to focus on increasing tree planting opportunities.

GOALS FOR MAY 9 COMMITTEE MEETING:

1. Establish additional Management goals.
2. Develop a first draft of a Mission Statement.

ATTACHMENTS: Street Tree Data and 2011 Activities Reports

DISTRIBUTION:

Tree-Finance Committee of BPPC
General Services Director
Street Tree Field Supervisor

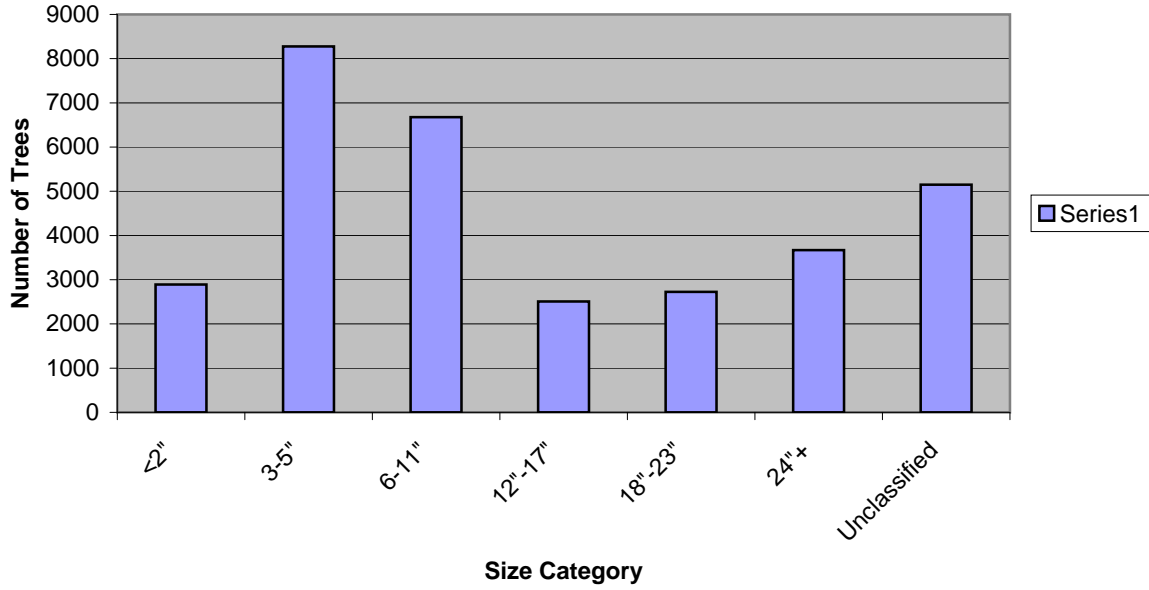
CITY OF CHICO

Street Tree Population Information

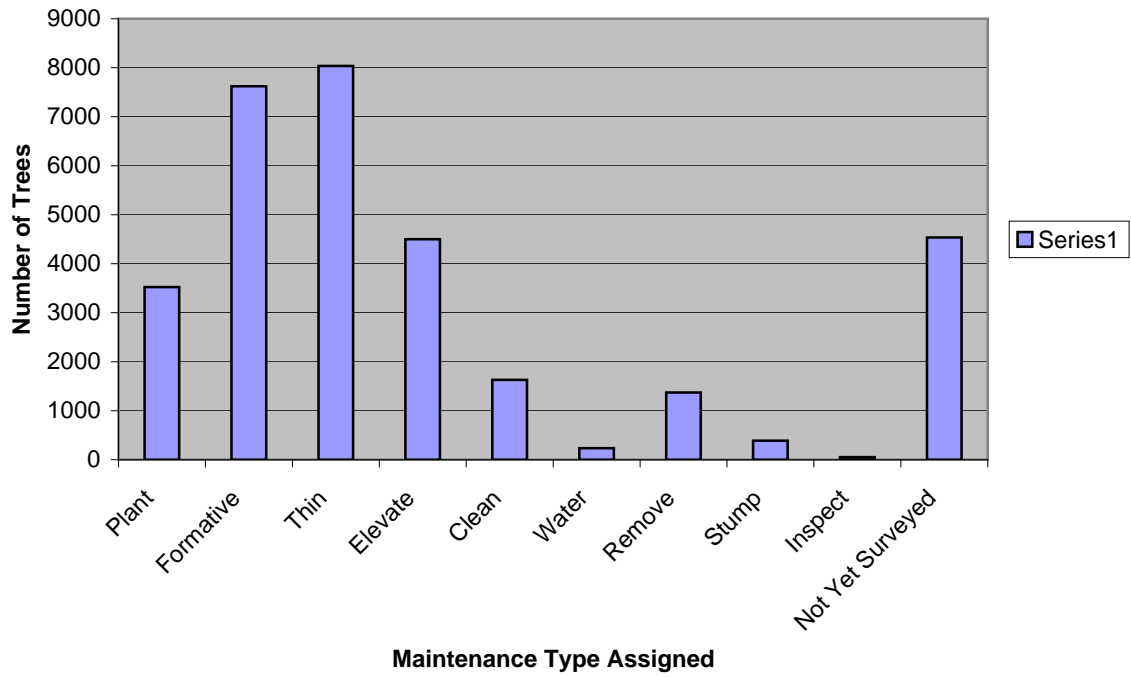
Maintenance		Tree Health		Work Zones	Number of Trees	Trees per Mile (X10)	Number of Planting Sites	% Open Planting Sites
Plant	3524	Excellent	1896	1 South Chico	6822	1260	597	9%
Formative	7622	Good	4094	2 California Park	2690	900	360	13%
Thin	8038	Fair	10095	3 North Bidwell	1339	630	334	25%
Elevate	4501	Poor	1560	4 NorthEast Chico	4776	1170	564	12%
Clean	1628	Dying	325	5 Avenues	6699	1140	728	11%
Water	236	Dead	187	6 Downtown	4489	1690	464	10%
Remove	1372			7 NorthWest Chico	5081	820	348	7%
Stump	388		18157		31896		3395	
Inspect	52							
Not Yet Surveyed	4535							
Total	31896							

Work Zones	Number of Trees in Each Size Category							Unclassified	Total
	<2"	3-5"	6-11"	12"-17"	18"-23"	24"+			
1 South Chico	567	1518	1652	877	487	590	1131	6822	
2 California Park	267	1056	563	63	114	182	445	2690	
3 North Bidwell	114	188	335	124	114	106	358	1339	
4 NorthEast Chico	974	1353	1156	284	158	79	772	4776	
5 Avenues	472	1486	1074	353	975	1386	953	6699	
6 Downtown	263	531	997	615	531	949	603	4489	
7 NorthWest Chico	233	2145	899	193	345	379	887	5081	
All trees	2890	8277	6676	2509	2724	3671	5149	31896	

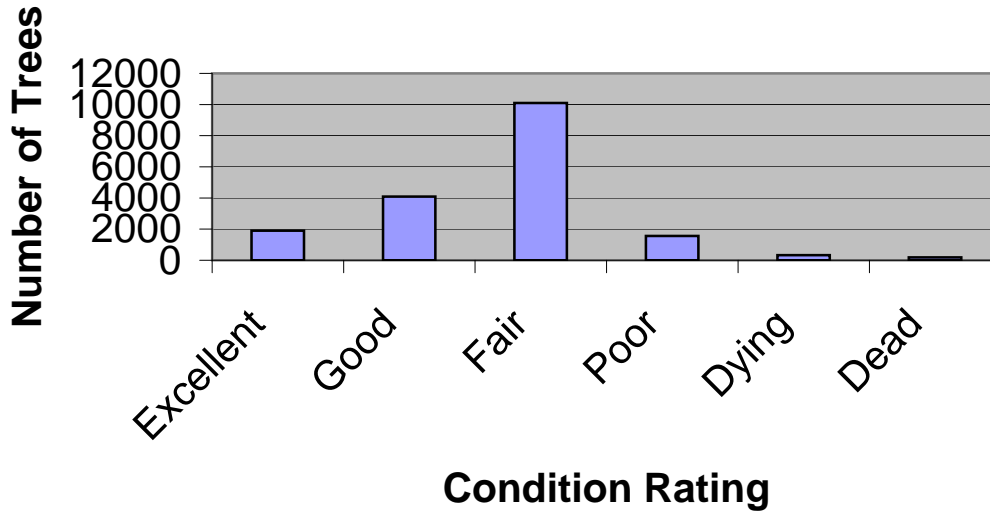
Street Tree Population by Size



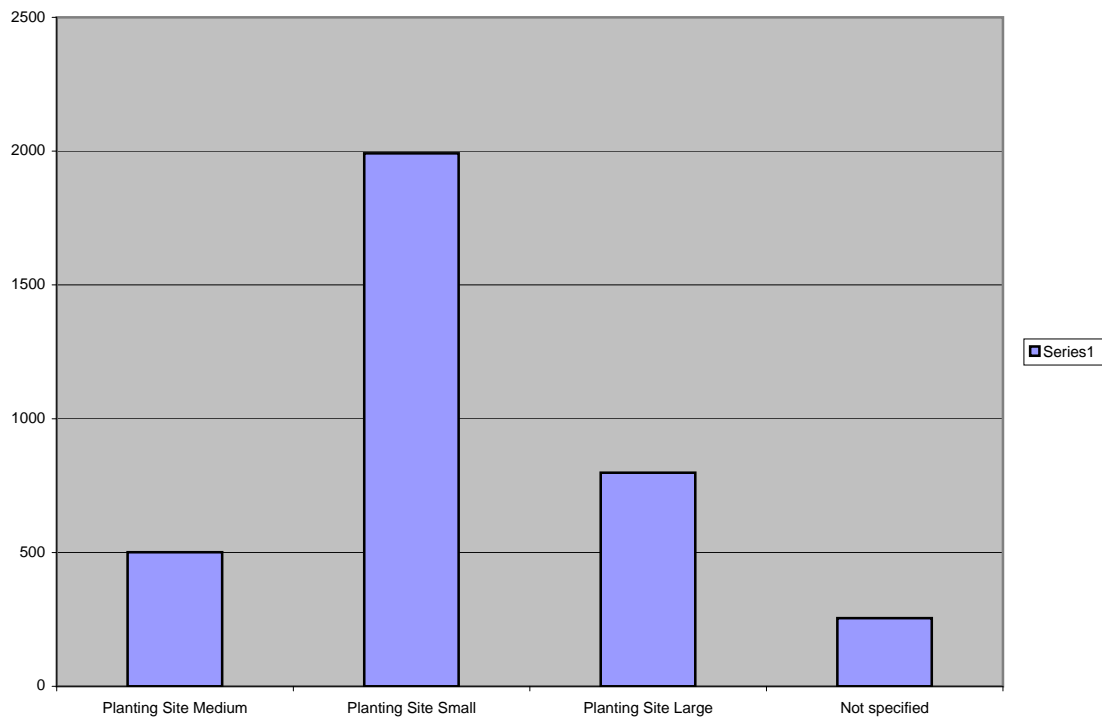
Maintenance Needs



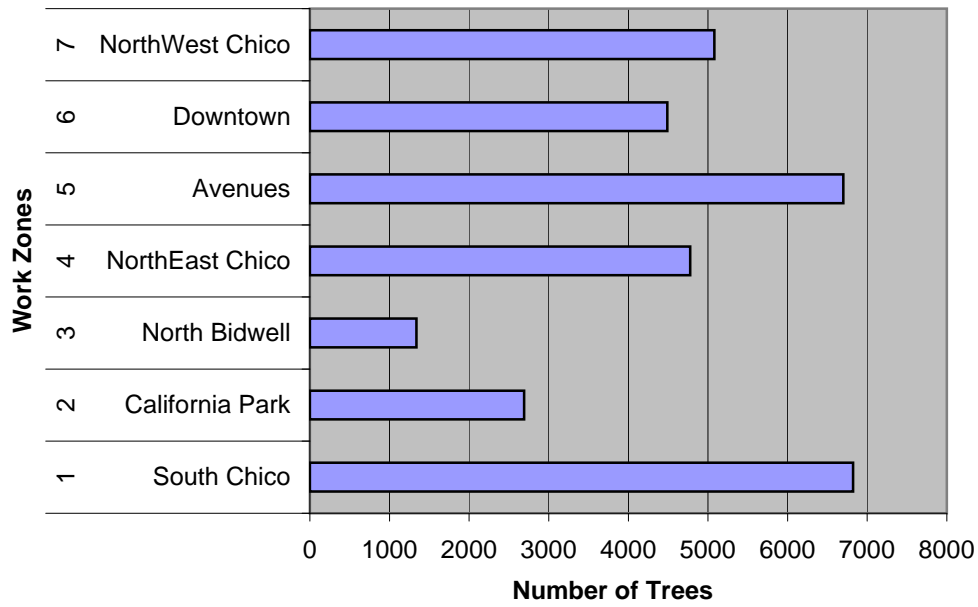
Tree Vigor Ratings



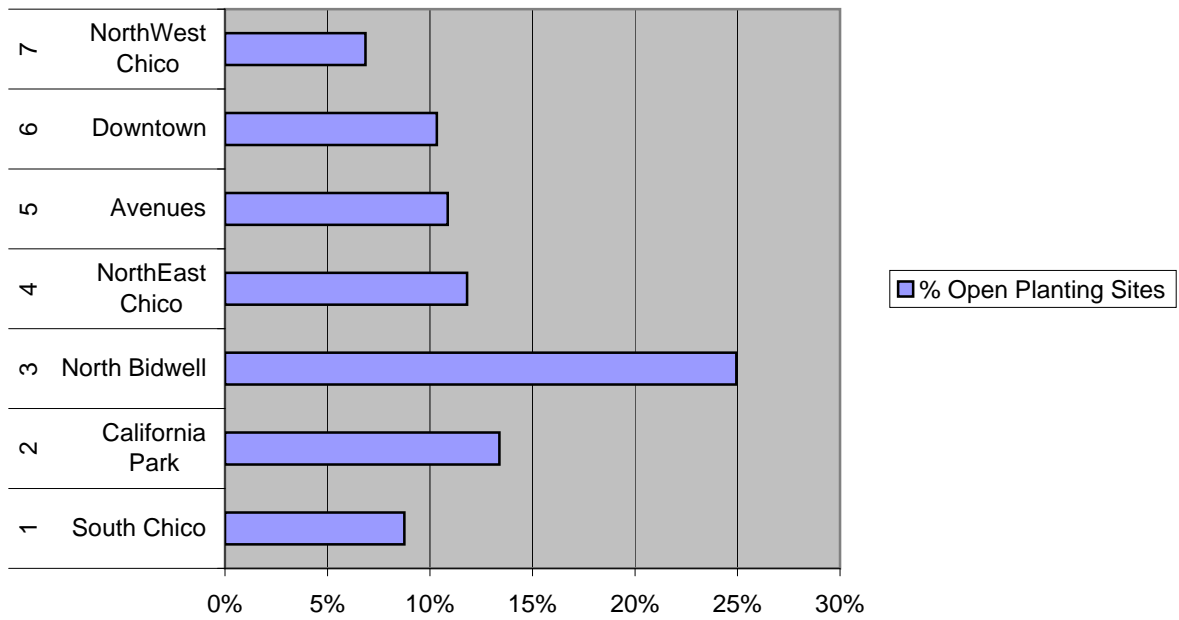
Planting Sites



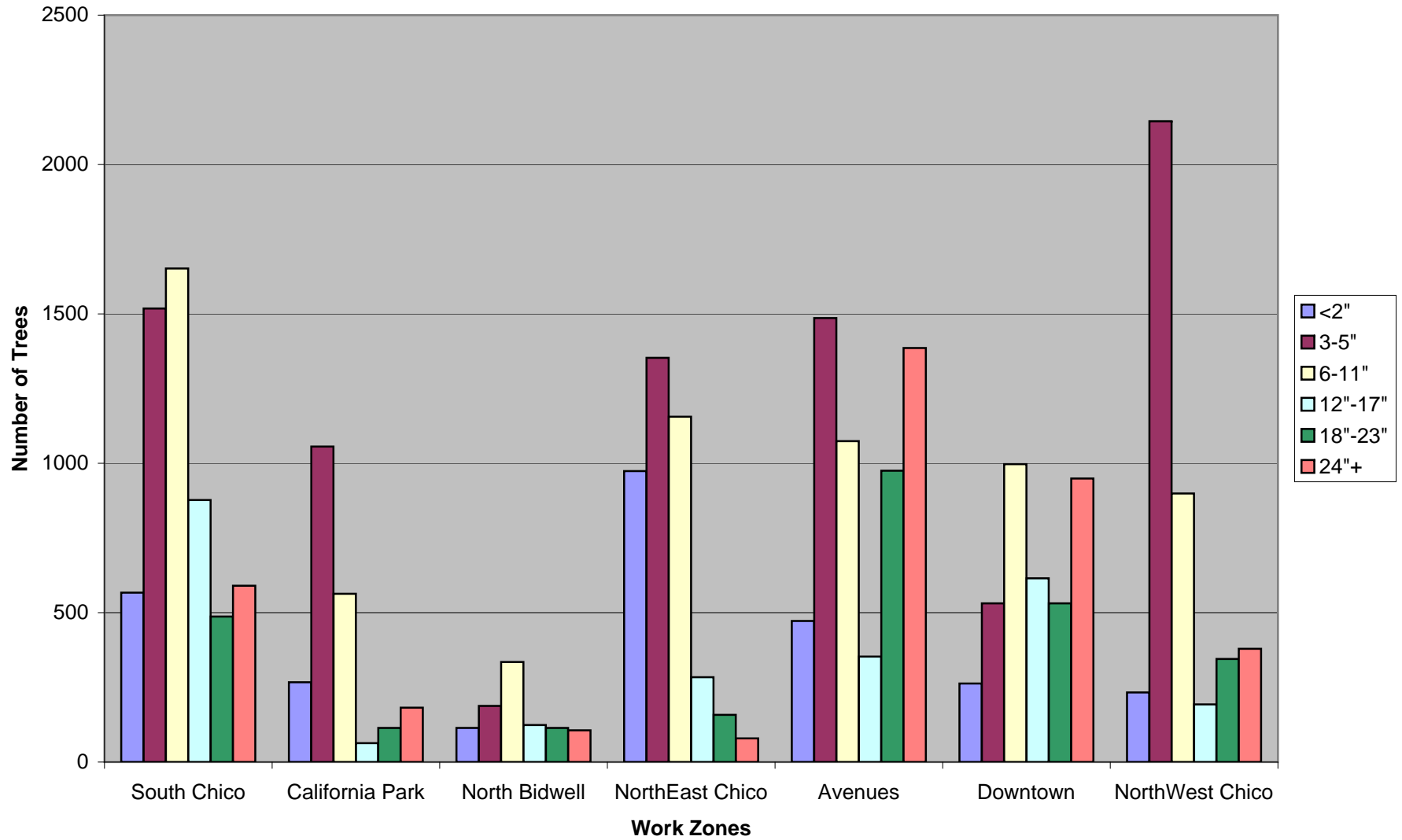
Number of Trees In Work Zones



Percent Open Planting Sites



Number of Trees by Size in Work Zones



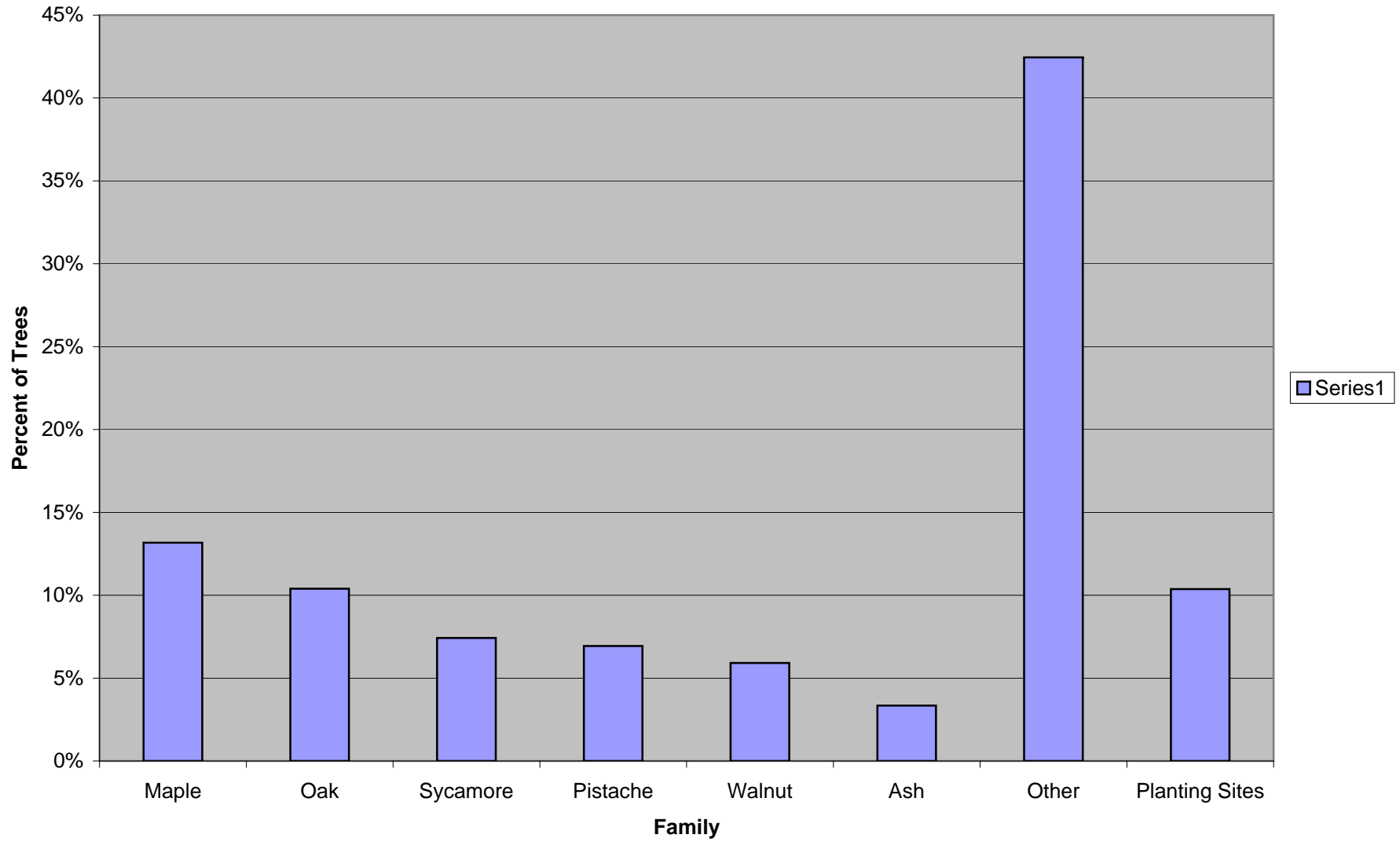
**City of Chico
Urban Forest Species Composition**

<u>Genus</u>	<u>Species</u>	<u>Common Name</u>	<u>Count</u>		
<i>Pistachia</i>	<i>chinensis</i>	Chinese Pistache	2241	1	29%
<i>Lagerstroemia</i>	<i>indica</i>	Crepe myrtle	1558	2	20%
<i>Juglans</i>	<i>hindsii</i>	Black Walnut	1503	3	20%
<i>Platanus</i>	<i>acerifolia</i>	London Plantetree	1321	4	17%
<i>Quercus</i>	<i>lobata</i>	Valley oak	1032	5	13%
Top 5 Species			Sub-Total	7655	100%
<i>Celtis</i>	<i>chinensis</i>	Chinese hackberry	832	6	
<i>Zelkova</i>	<i>serrata</i>	Japanese Zelkova	813	7	
<i>Liquidambar</i>	<i>styraciflua</i>	Sweetgum	720	8	
<i>Platanus</i>	<i>acerifolia</i>	Yarwood Sycamore	621	9	
<i>Fraxinus</i>	<i>velutina</i>	Arizona ash	600	10	
			Sub-Total	3586	
<i>Acer</i>	<i>truncatum x plantaoides</i>	Pacific Sunset Maple	594	11	
<i>Alnus</i>	<i>rhombifolia</i>	Califronia White alder	586	12	
<i>Sequoia</i>	<i>sempervirens</i>	Coast Redwood	586	13	
<i>Quercus</i>	<i>shumardii</i>	Shumard Oak	553	14	
<i>Acer</i>	<i>saccharinum</i>	Silver maple	546	15	
<i>Betula</i>	<i>pendula</i>	European birch	523	16	
<i>Quercus</i>	<i>palustris</i>	Pin Oak	514	17	
<i>Cinnamomum</i>	<i>camphora</i>	Camphor	492	18	
<i>Nyssa</i>	<i>sylvatica</i>	Blackgum	484	19	
<i>Fraxinus</i>	<i>oxycarpa</i>	Raywood ash	446	20	
			Sub-Total	5324	
Total Species		140 Other	14066		
Total Genus		92 Sub-Total	16565		
			Planting Site Medium	501	
			Planting Site Small	1992	
			Planting Site Large	798	
			Not specified	255	
			Sub-Total	3546	

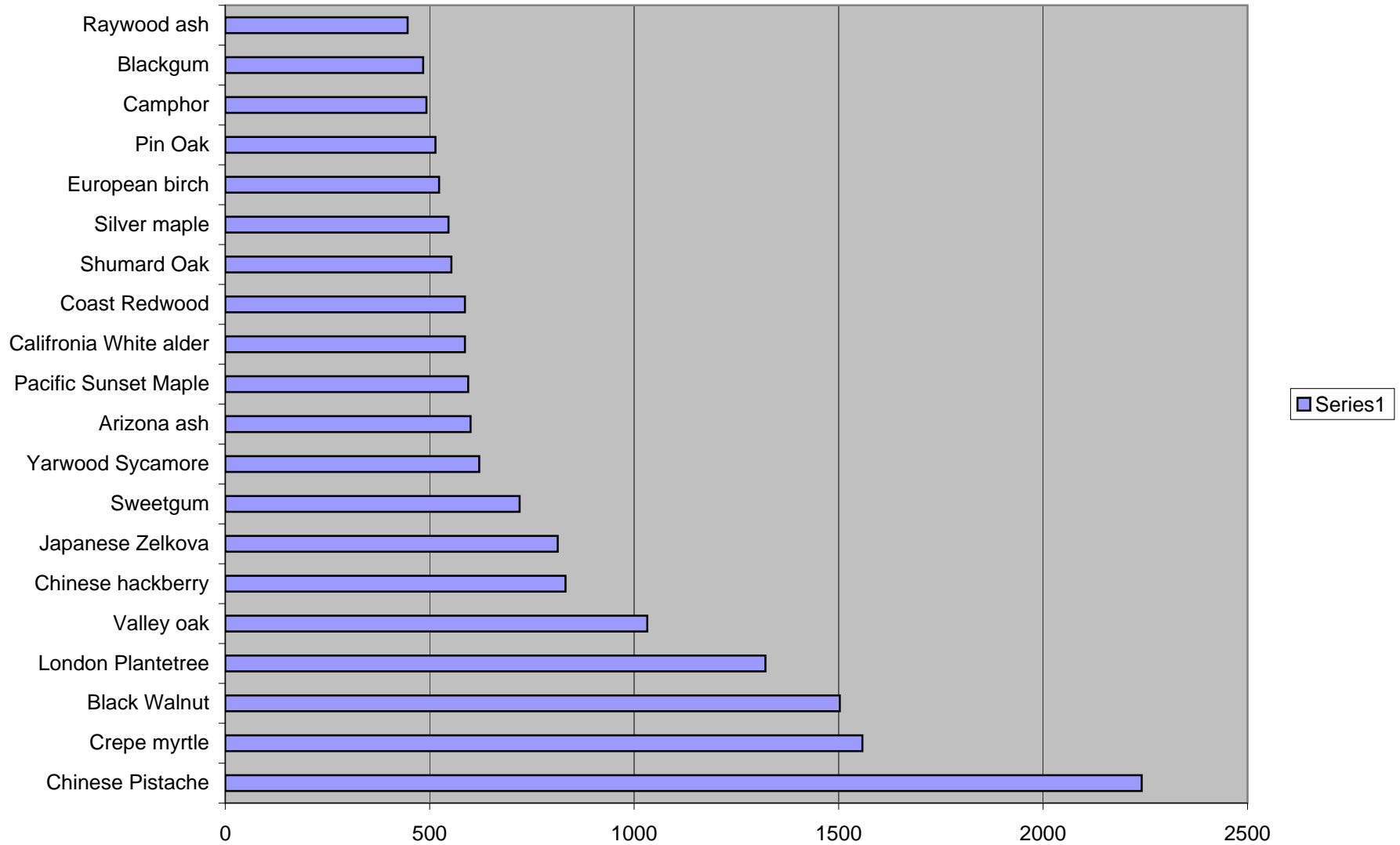
Top Genus Count:

Maple	13%	4500
Oak	10%	3552
Sycamore	7%	2537
Pistache	7%	2371
Walnut	6%	2020
Ash	3%	1143
Other	42%	14508
Planting Sites	10%	3546
Total Trees/Sites	100%	34177

Street Trees Genus



Twenty Most Common Species



Street Tree Maintenance Hours

2011

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
assistance, DPW	0	0	0	0	0	0	0	6	17	0	89	152	264
assistance, Police & Fire	0	0	0	0	0	0	0	4	0	0	0	0	4
brush chipping & clean up	2	2	4	0	6	0	0	6	2	3	0	4	29
call out clean up	0	0	0	22	0	12	25	36	15	0	0	0	110
camp clean up	0	0	0	8	8	0	8	0	0	0	0	0	24
Christmas tree & menorah	74	0	0	0	0	0	0	0	0	0	96	7	177
clearing, street light	0	0	6	26	5	0	0	0	0	0	0	0	37
DCBA pruning	0	0	0	0	0	69	158	103	4	0	0	0	334
down limbs and hangers	2	48	13	15	45	60	102	135	89	80	43	24	656
Downtown Plaza	69	0	0	0	0	0	0	0	0	0	0	2	71
elevating, DPW sweeper	0	0	0	0	0	0	0	0	0	0	0	0	0
elevating, leaf pick up	0	0	0	0	0	0	0	0	0	0	0	0	0
elevating, routine	98	94	0	0	5	7	0	0	0	0	0	0	204
equipment maintenance	44	66	48	59	58	56	18	54	63	48	34	38	586
grates and cages	0	0	10	5	6	0	16	2	0	4	0	0	43
irrigation	0	0	0	8	132	124	93	143	134	32	0	0	666
leave, time off	105	90	72	179	153	98	151	44	79	98	70	80	1219
planting	0	0	2	29	0	0	0	0	0	0	0	0	31
prep time & DOT inspection	78	70	97	71	97	92	69	103	83	68	58	55	941
pruning, ADA	0	2	0	0	0	0	0	0	0	0	0	0	2
pruning, formative	231	244	121	0	0	0	0	0	0	14	0	0	610
pruning, Park	0	37	16	131	0	10	0	0	0	0	0	0	194
pruning, Traffic Safety	3	0	0	0	71	8	6	0	0	24	0	0	112
removals, priority	0	0	16	0	14	0	31	0	0	0	20	0	81
safety meetings	25	22	9	6	12	9	8	10	8	8	2	4	123
school zones	0	0	0	0	0	113	0	167	0	10	0	0	290
service requests	40	11	245	219	330	171	78	72	321	273	225	348	2333
storm damage clean up	0	0	241	4	40	26	0	0	0	0	18	0	329
training	30	25	24	27	32	44	8	58	18	55	24	0	345
trimming, priority	0	0	0	0	0	0	0	0	0	0	0	7	7



DATE: 3/12/12
TO: BPPC
FROM: Denice Britton, Urban Forest Manager
SUBJECT: Urban Forest Manager's Report

Prepared for verbal presentation at the BPPC meeting.

1. Updates

- a. Field Supervisors Report – The field supervisor's report is attached. Tree crew focused on formative pruning and service requests during the last month. They have also completed pruning all the trees in the median on California Park Drive, and the ginkgo tree at 4th and the Esplanade.
- b. Urban Forest Mgt Plan – Staff continues to meet with the Tree Committee on the Urban Forest Management Plan. The staff committee Report for the March meeting and the April 11 meeting are included in Reports. The summary will be provided verbally by Chair Mikles. Staff will continue to focus on this project throughout the next few months.
- c. Winco – Trees have been planted and irrigation is being installed. The final project should be complete before the end of the month.
- d. Tree Planting Workshops – The final Tree Planting Workshop on April 14 was quite successful. Door hangers were distributed by staff and volunteers in an effort to get more involvement with this program. In addition, property managers were contacted to increase the number of trees planted at rental properties. Staff has found homes for the trees, with the help of the landscape crew planting the "extra" trees in the medians and other landscapes where trees have not survived. The tree crew also planted a few trees in downtown Chico in empty planting locations. A total of 79 trees have been planted this season.
- e. Tree Donations – Staff is working with local tree enthusiast Karen Laslo on doing some local tree photography for the Memorial/Commemorative Tree Donation program that was recently established.

2. Service Requests and Tree Permits

- a. Attached is a list of completed and closed service requests for the month of March.
- b. Permits received during the month of February:

North Valley Tree Service – 1969 E 8th St – Remove 2 pecans, not native, crowded against home
– 555 Main Street – Remove and Replace sycamore at corner with new species
– Chico Sports Club – Remove and Replace 8 Raywood ash trees with smaller species

Rawe Tree Care – 2280 Fern – Remove one and prune two older Black walnuts. The removal was extensively decayed.

PG&E - Remove 2 Valley oak, 1 pistache and one small black walnut under high voltage lines at Eaton Road and the Sycamore Creek Diversion Channel

3. Outreach

- a. Met a second time with DCBA to discuss downtown tree replacement issues. Both Tri-Counties Bank and the building at 555 Main have both received permits for removing and replacing problem trees with new trees.

4. Upcoming Issues

- a. Tree Preservation Ordinance to be discussed with the Architectural and Historic Preservation Review Board.

STREET TREE MAINTENANCE REPORT FOR MARCH, 2012
DAVID BETTENCOURT, FIELD SUPERVISOR- STREET TREES

1. STREET TREE MAINTENANCE

A. PROJECTS COMPLETED:

1. 26-SERVICE REQUEST- a detailed list is attached.
2. BRUSH CHIPPING AND CLEAN UP- 12 man hours.
3. PRIORITY REMOVALS- 40 man hours. (E 20th St @ Forest Ave, Winco)
4. DOWN LIMBS AND HANGERS- 55 man hours at numerous locations.
5. TRAINING- 44 man hours.
6. SAFETY MEETINGS- 7 man hours.
7. GRATES AND CAGES- 8 man hours
8. PREP TIME AND DOT INSPECTIONS- 87 man hours.
9. EQUIPMENT MAINTENANCE- 66 man hours.
10. CALL OUT CLEAN UP- 18 man hours.
11. PLANTING- 8 man hours spent planting in the downtown area.
12. FORMATIVE PRUNING- 394 man hours pruning 475 younger trees.
13. TRAFFIC SAFETY PRUNING- 4 man hours spent pruning to improve visibility and safety.

B. CALL OUTS:

1. There were 3-call outs for the month of March that required follow up pruning and debris clean up.

Attachments:

Log of Tree Maintenance Hours
Closed Service Requests

Chico Service Request Search Results

Operator	Date Entered	Requestor	Requestor Phone	Tracking No	Location	Assigned To UID	Assigned To Name	Division	Status
trodrigu	03/28/2012	Dennis	895-0266	FB1A8BE5A8	7th St / Cedar St	mkellogg	Kellogg, Mark	Trees/Public Landscapes	Closed
Description:	CLEANED UP Branch is down and blocking the fire hydrant on the corner of 7th and Cedar. Dave has been called.								
trodrigu	03/28/2012	Dan	774-7180	EBCE3118E0	362 Brookside Dr	dbettenc	Bettencourt, Dave	Trees/Public Landscapes	Closed
Description:	INSPECTED Tree is causing his driveway to lift, is causing problems with water line and he family as allergies to the tree. He would like to remove it but wants to confirm first that it's private and not City Prop.								
rstanfor	03/28/2012	R Stanford		D05612DA94	Northwest Corner	dbettenc	Bettencourt, Dave	Trees/Public Landscapes	Closed
Description:	COMPLETED Request to prune the tree above the 30 min parking space on the Northwest corner of the intersection at W 5 St & Orange.								
trodrigu	03/26/2012	Bruce Balgooyen	892-1904	83FB4FE468	Normal Ave/ W. 18th Street	tnebel	Nebel, Tim	Trees/Public Landscapes	Closed
Description:	PRUNED Stop sign going south is blocked by tree limbs, please prune								
trodrigu	03/26/2012	Jean Whan	342-0453	56744DFF4C	886 Lynn Ln	dbettenc	Bettencourt, Dave	Trees/Public Landscapes	Closed
Description:	PRUNED AND REMOVED STAKES City tree still has stakes that need to be removed, please.								
trodrigu	03/23/2012	Jim Fiack	899-9590	272460F4D4	410 / 404 Royal Glen Ln	dbettenc	Bettencourt, Dave	Trees/Public Landscapes	Closed
Description:	INSPECTED RP lives at 411 Royal Glen and he states the tree across from he has been stunted because it has not been pruned.								
trodrigu	03/22/2012	Julia Hutler	345-8105	50BB06475C	3 Cornicabra	dbettenc	Bettencourt, Dave	Trees/Public Landscapes	Closed
Description:	PRIVATE Tree is dying and needs to be removed.								
trodrigu	03/20/2012	Jack Karr	893-3601	CB355B5C2C	1727 Laburnum	dbritton	Britton, Denise	Trees/Public Landscapes	Closed
Description:	On July Removal List - Spoke with homeowner. UF INSPECT Walnut tree is rotting at the base facing the house. He would like it assessed for health and safety and would like a return call regarding the findings.								
trodrigu	03/19/2012	Mike Von Kleist	345-2597	EC0B30DFE0	825 Forest Ave	dbettenc	Bettencourt, Dave	Trees/Public Landscapes	Closed
Description:	Trees were pruned approx 2 wks ago across from this address at E 8th St/Forest Ave. RP states there are 4-5 branches that were left behind which needs to be removed. He states he has pulled them out of the bike path a couple of times but the wind blows them back into the path.								
dbritton	03/19/2012	DFB	896-7802	D8403F3930	1400 W 3rd St.	dbettenc	Bettencourt, Dave	Trees/Public Landscapes	Closed
Description:	HIGH PRIORITY: Elevate Mulberries over street and parking lot. prune to thin any heavy limbs at the same time.								
trodrigu	03/19/2012	Mark Gordon	894-3654	D3120B96E8	957 Normal	tnebel	Nebel, Tim	Trees/Public Landscapes	Closed
Description:	PRUNED HIGH PRIORITY Duplex with 2 handicap parking in front. Low hanging branches need to be elevated to allow access for his handicap van.								
trodrigu	03/16/2012	Shirley Boehm	342-3061	A2D88548C9	2567 New Heather Wy	dbettenc		Trees/Public Landscapes	Closed

Chico Service Request Search Results

Operator	Date Entered	Requestor	Requestor Phone	Tracking No	Location	Assigned To UID	Assigned To Name	Division	Status
Description: INSPECTED Tree roots are on top of the lawn, she would like to remove the tree but wants to make sure it's her tree and not City. I did let her know we don't have a tree logged on her prop but she wants to double check. Please call to confirm.									
aholinsw	03/15/2012	Amber Holinsworth	7906	9BCC63F808	491 E 4th St Tree	tbeach	Beach, Troy	Trees/Public Landscapes	Closed
Description: REMOVED AND PRUNED There is a pretty big tree limb hanging from the tree on the Olive St side of 491 E 4th St. The branch in right over the sidewalk.									
trodriгу	03/14/2012	Natalia	345-7000	1216D8E414	100 Penzance Ave Eaton Rd	lsheppar	Sheppard, Linda	Trees/Public Landscapes	Closed
Description: LANDSCAPERS assigned to theis Work. She states the landscape on Eaton Rd portion is maintained by the City. This is an exposed pipe - would like bark placed and the weeds need trimming. RP would like an ETA.									
trodriгу	03/14/2012	Daren	342-9003	113F4C96B4	680 Camellia Wy	tnebel	Nebel, Tim	Trees/Public Landscapes	Closed
Description: REMOVED HANGER Broken branches caught in the tree, he's concerned the wind might blow them out and cause injury to person or property.									
trodriгу	03/14/2012	Victoria	321-9284	026D762780	1 Vintage Ct / Marigold	tnebel	Nebel, Tim	Trees/Public Landscapes	Closed
Description: REMOVED City tree has been down since 3/13/12 on the Marigold side of property, it's not blocking traffic. Dave has been called.									
dbritton	03/07/2012	LDS Church	343-5628	6AD94F537C	608 Esplanade	tnebel	Nebel, Tim	Trees/Public Landscapes	Closed
Description: CLEANED UP Please pick up palm fronds dropped yesterday in sotrm.									
lcameron	03/06/2012	Michelle Shover	343-1255	9FF521E5E8	256 E 12TH ST	tnebel	Nebel, Tim	Trees/Public Landscapes	Closed
Description: REMOVED TREE AND STUMP Limb down, partially blocking roadway. Dave has been called.									
dbettenc	03/06/2012	CPD		98D15EADD8	910 East Ave	dbettenc	Bettencourt, Dave	Trees/Public Landscapes	Closed
Description: CLEANED UP Down limb in the street, 6" x 25'.									
lcameron	03/06/2012	Cheryl Melcon	895-0363	983589F8C8	205 W LINCOLN AVE	tnebel	Nebel, Tim	Trees/Public Landscapes	Closed
Description: CLEANED UP Limb down blocking roadway. Dave has been called									
lcameron	03/05/2012	Denice Britton	896-7802	FF0C374C6C	E 20th St and Forest Avenue	tbeach	Beach, Troy	Trees/Public Landscapes	Closed
Description: REMOVED HIGH PRIORITY: Remove 5 sycamore street trees on northeast corner of E 20th St, and 18 Hackberry trees on Forest Avenue for tree replacement by WinCo.									
lcameron	03/05/2012	Tom Johnson	345-2774	D717AC03C0	1384 Spruce	dbettenc	Bettencourt, Dave	Trees/Public Landscapes	Closed
Description: INSPECTED Black walnut tree on corner of Spruce is lifting sidewalk creating a dangerous tripping hazard.									
lcameron	03/02/2012	James Avila	327-8007	9E8CE681F4	184 E 15TH ST	dbettenc	Bettencourt, Dave	Trees/Public Landscapes	Closed
Description: PRIVATE TREE RP states his private tree in alley has been trimmed by a professional trimmer, but trimmer wouldn't trim 3 branches near power lines. He called PG&E, they came out and said that the lines service a City street light, so PG&E wouldn't touch it. He would like to have final branches trimmed.									

Chico Service Request Search Results

Operator	Date Entered	Requestor	Requestor Phone	Tracking No	Location	Assigned To UID	Assigned To Name	Division	Status
kwhite	03/02/2012	DCBA and Chamber DRC		73A237E75C	at approximately 130 w. 6th Street	tnebel	Nebel, Tim	Trees/Public Landscapes	Closed
Description:	REMOVED CAGE Tree cage is bent badly. DCBA and Chamber DRC wondering if it could be replaced.								
trodrigu	03/01/2012	Carol Grigg	343-6243	A8DD2AB040	305 Ash	dbritton	Britton, Denice	Trees/Public Landscapes	Closed
Description:	UF INSPECTED - On LIST FOR HIGH PRIORITY REMOVAL F:1 walnut tree needs to be removed at 3rd St / Ash, leaning. Plus tree to south with extensive decay.								
trodrigu	03/01/2012	Lucy Jamison	342-7400	A746A3A588	Bruce / Remington	lsheppar	Sheppard, Linda	Trees/Public Landscapes	Closed
Description:	CORRECTED _ Cleaned up. RP stated the s side of Remington @ Bruce use to be landscaped but has not been in quite some time, there is a lot of old leaves, and is overgrown, etc.								



DATE: 4/16/12
TO: BPPC
FROM: Dan Efseaff, Park and Natural Resource Manager
SUBJECT: Park and Natural Resource Manager's Report

Prepared for verbal presentation at the BPPC meeting.

1. Updates

- a. One Mile Dam - Staff lowered the dam after getting reports of salmon below the Sycamore Pool. The lowered dam should help ease migration of salmon. We are likely to leave it down for the next couple of weeks, but we plan on having it up and ready for the traditional Memorial Day opening.
b. Sycamore Field - CARD submitted a request to the City for the installation of a Bulletin Board at Sycamore Field. The board will be used to notify the public of programming at the facility and CARD info. Space will be set aside for the posting of City issued park info and maps. Under authority of the lease (Section 7), CARD cannot make any alteration or addition to the improvements without the prior consent of City's Park Director, and Staff issued an authorization letter (BPPC consent would be required for the construction of any new buildings).

2. Planning/Monitoring

- a. Middle Trail Grant - Staff is developing plans for work on the Middle Trail. Work should begin during the latter part of April and continue until June.
b. Peregrine Point Disc Golf Course - Scheduling with contractor Butte County Checkerbloom and Bidwell's knotweed data collection.
c. Tick Flagging Report- The Butte County Mosquito and Vector Control flagged three sites on the Yahi trail to ascertain the juvenile and adult tick abundance in the area. The following chart summarizes the results of the flagging:

2011 BCMVCD Tick Flagging Report

Table with 7 columns: Scientific Name, Location, Ixodes Pacificus (Male, Female), Dermacentor Occidentalis (Male, Female), and Dermacentor Variabilis (Male, Female). Rows include Yahi Trail (Bear Hole), Yahi Trail (Day Camp), Yahi Trail (Alligator Hole), and a Total row.

Date of Collection- 04/04/12

Western Black Legged Tick (Ixodes Pacificus)- May carry lymes disease.
Pacific Coast Tick (Dermacentor Occidentalis)- May carry Rocky Mountain spotted fever or tularemia.
American Dog Tick (Dermacentor Variabilis)- May carry Rocky Mountain spotted fever or tularemia.

3. Outreach and Education

- a. Mutt Strut - In 2012 the park ranger staff was invited to join the Butte Humane Society in a new program called "Mutt Strut." Mutt Strut is a program that helps introduce dog owners and their dogs to local parks in the Chico area. On March 18th and 25th Ranger Verbrugge joined Lori Wells from the Butte Humane Society on presenting information about Bidwell Park and dog etiquette in the park. Topics that were covered included dog prohibited areas, leash regulations, hiking etiquette, creek safety, and hiking safety. After presenting the information Ranger Verbrugge led the group on a short hike in the park. Approximately 10 -15 people participated in Mutt Strut. Each

event lasted approximately 1 hour. Visitors in the park that saw the group showed interest in wanting to participate.

- b. Wilderness Talk - Park Rangers were notified by the Chico Creek Nature Center of an opportunity to speak with a CSU Chico college class about being prepared while hiking in Bidwell Park. On April 2, 2012 Park Ranger Verbrugge presented to a group of approximately 30 students at the Chico Creek Nature Center. The class is part of the Health and Community Services program and is focused on running a community business. This year the students choose to create a business called "Planet Protectors." The business was to hypothetically create a summer camp for kids in an outdoor setting. The talk presented by the ranger lasted approximately 35-40 minutes. It was based around the Boy Scouts of America's ten essentials list.
- c. Safety Faire – Rangers participated in a safety Faire at the Elks Lodge on April 12th, 9 am- 3 pm. Several hundred students, grades K-12 attended the event that included safety demonstrations from numerous Butte County Agencies.
- d. 22nd Annual California Federal Junior Duck Stamp Contest- Ranger Romain participated as a judge in the Annual Junior Duck Stamp Contest. He was 1 of 10 judges tasked with selecting 100 winners out of 3,500 submissions.
- e. News Releases – Releases for March covered the Volunteer Trail and Crew Leader Training dates (3/12) and Parking Lot B Closure (3/23).
- f. Arbor Day in Lost Park – on March 6, the Urban Forest Manager and Volunteer Coordinator taught students from Chico High School's agriculture department about planting trees in Lost Park. Students planted 5 Western Sycamores and 1 big leaf maple and the Enterprise Record made it a front page story on March 7.
- g. KCHO Radio Show – Volunteer Coordinator along with 2 students from the Chico High School volunteer native plant project were interviewed by Jennifer Jewel for In a North State Garden Saturday morning radio show, which aired in early April.

4. Upcoming Issues/Miscellaneous

- a. Hmong Cultural Festival – Park and Natural Resource Manager approved an event application for the Butte County Hmong Association Cultural Event to be held on September 29-30, 2012. The 10th Annual Hmong Cultural Festival will be held at City Plaza. A condition of the permit was coordination between applicant and Chico Police Department as was a precedent set for last year's celebration.
- b. Northern CA Regional Land Trust Event Change – The organization has requested changing their Hike and Run event date from June 9 to June 2 to avoid a conflict with Relay for Life Run. The new date is also National Trail Days in Bidwell Park, a volunteer workday. The NCRLT will work with Park staff to conduct the event in non-trail work areas.

MAINTENANCE REPORT

1. General

March has seen the completion of many varied projects from split rail fencing to the creation of native planting sites and preparation for the spring trail season. Staff continues the daily cleaning and safety inspections of all recreation areas including; grounds, playgrounds, picnic sites, roads and paths coupled with the daily cleaning and resupplying of all park restrooms. Maintenance and repair of park fixtures, daily opening of gates, posting reservations, unauthorized camp clean up and the constant removal of graffiti from all park infrastructure.

Category	Staff Hours	% of Total	% Change from Last Month	2012 Trend
1. Safety	346	38.0%	128.4%	
2. Infrastructure Maintenance	290	31.9%	141.1%	
3. Vegetation Maintenance	113	12.4%	56.6%	
4. Admin Time/Other	162	17.7%	90.0%	
Monthly Totals	911	100%	106.6%	

- a. **Lower Park:** Staff installed 280 feet of split rail fencing, replacing the old and rotten peeler core at the One Mile cul-de-sac completing the planned split rail for the south side of One Mile. Caper Acers Boys restroom is in the throws of water damage repairs and will be complete in early April.
- b. **Middle Park:** Staff have and continue to clean up and monitor our native planting sites in Middle Park and have completed all new sites for this years planting. The Five Mile septic issue has progressed from a simple repair to now having a certified designer come up with a plan that will meet the county's requirements, basically this means we are looking at a new system as our tank is too small for the minimal numbers of projected users this area sees on a seasonal basis.
- c. **Upper Park:** Staff have been monitoring the work done on the Middle trail to asses and correct any water drainage issues before they become unmanageable, for the most part the trail is working as designed.
- d. **Upcoming Projects:** Trail season starts on April 16TH, Parking lot B resurfacing, Turf program moves into full swing and all areas are preparing for the summer season.

RANGER REPORT

1. Updates and Announcements

- a. **Staff** – Permanent Seasonal Park Ranger Lisa Barge is has returned to duty and we are fully staffed with four Rangers for the recreation season.
- b. **Lifeguards** – Recruitment is underway for Lifeguards and several applicants are going though the hiring process. Lindsey Anderson, Marissa Anderson and Logan Slack will be returning from last season as the Head and Assistant Head Lifeguards. The lifeguard season will begin on May 25th and end on September 3rd.

2. Monthly Summaries

- a. **Park Reservations** - The following charts summarize public and private park permits issued in March, 2012.

Ranger Report - Public Park Permits 2012

Date	Location	Organization	Event	Participant #
3/3/2012	One Mile	Under the Sun Events	Bidwell Classic Run	1200
3/12/2012	City Plaza	Girl Scouts of America	Ceremony	200
3/24/2012	One Mile	Bridging the Gap Foundation	Walk for Water	300
3/31/2012	One Mile	NVCF	Bidwell Mansion Run	100
3/31/2012	City Plaza	Peace and Justice Center	Cesar Chavez Day	20
Totals			5	1800

Ranger Report- Private Permits 2012

Type	# Permits	Participant #
Private	5	91
Caper Acres	33	Not Available
Totals	38	91

- b. **Visitation**- The following chart summarizes the traffic counts collected in March, 2012 as well as YTD totals.

Location	Estimated Daily	Estimated Monthly	Estimated YTD Total
Lower Park			
Petersen Dr	153	4,743	11,536
N One Mile	271	8,401	22,980
S One Mile *	338	10,478	24,815
Cedar Grove/S Park Dr	108	3,348	8,450
Estimated Subtotal	870	26,970	67,781

Middle/Upper Park

Upper Park Rd	998	30,938	85,655
Estimated Total	1,868	57,908	153,436

* S Park Dr counter tampered with resulting in missing data. Used data collected in February.

- c. Significant Incidents- The following chart summarizes incidents of significance that occurred in March, 2012.

A few Mt. Lion sightings have occurred over the past month. The sightings have been in Upper Bidwell Park, North of the creek on the Yahi Trail. Rangers are monitoring the activity and have been in contact with the local DFG Warden.

On 03/10/12 at 7:00 PM Ranger Verbrugge responded to lost person call in Upper Park. Five subjects called the Chico Police Department and reported that they were lost on the south side of Upper Park near Bear Hole. The lost individuals were unfamiliar with the areas, had minimal clothing and did not have any food, water, or flashlights. Ranger Verbrugge was able to direct the individuals out on the Guardian Trail and assisted in transporting them to their vehicle at Horseshoe Lake.

On 3/12/12 Ranger Erdahl and the Fire Department responded to a fire at the Highway 99 construction site. A small fire started due to welding up above and was extinguished by the Fire Department.

On 03/27/12 Ranger Verbrugge, Police and Medics responded to a suicide at Verbena Fields. Officers were first on scene and started CPR immediately. Unfortunately, the involved person was already deceased. Ranger Verbrugge as well as the Officers involved received a report of commendable action for their response and efforts.

2011 Part 1 Crimes Against Persons

Type	Bidwell Park *	% of Total	All City Parks **	% of Total	All City Total
Homicide	0	0.00%	0	0.00%	5
Rape	1	3.23%	1	3.23%	31
Robbery	3	3.23%	6	6.45%	93
Assault	8	5.56%	12	8.33%	144
Total	12	4.40%	19	6.96%	273

* Bidwell Park includes Lost Park, Annie's Glen and Camellia Way.

** All City Parks includes Bidwell Park data.

Ranger Report- Incidents 2012

Date	Location	Incident	Disposition
3/1/2012	Peregrine Point	Vandalism/Theft of Fencing	Report Filed
3/3/2012	City Plaza	Fight	NFA
3/4/2012	Lower Park	Vehicle Accident	Report Filed/Vehicle Towed
3/7/2012	Depot Park	Drunk in Public	Arrest
3/8/2012	One Mile	Assault	NFA
3/9/2012	Upper Park	Vehicle Accident	Report Filed
3/9/2012	Upper Park	Vehicle Burglary	Report Filed
3/10/2012	Upper Park	Missing Person	Person Located
3/11/2012	Lost Park	Parole Hold	Arrest
3/12/2012	Lower Park	Fire at Hwy 99 Cont. Site	Fire Extinguished
3/16/2012	City Plaza	Illegal Weapon	Arrest
3/17/2012	Lost Park	Parole Hold	Arrest
3/27/2012	Verbena Fields	Suicide	Transported by Medics
3/30/2012	Upper Park	Damage to Road Shoulder	Report Filed

d. Citations- The following charts summarize citations and warnings issued in March, 2012 as well as annual trends.

Ranger Report - Citations 2012

Violation	Monthly			Annual			2012 Trend
	Total Citations	%	Rank	Total Citations	%	Rank	
Alcohol	9	36%	1	23	33%	1	
Animal Control Violations	6	24%	2	22	32%	2	
Bicycle Violation	0	0%	6	0	0%	7	
Glass	2	8%	5	6	9%	4	
Illegal Camping	4	16%	3	4	6%	5	
Injury/Destruction City Property	0	0%	6	0	0%	7	
Littering	0	0%	6	0	0%	7	
Other Violations	0	0%	6	1	1%	6	
Parking Violations	4	16%	3	13	19%	3	
Resist/Delay Park Ranger	0	0%	6	0	0%	7	
Smoking	0	0%	6	0	0%	7	
Totals	25	100%		69	100%		

Ranger Report - Warnings 2012

Violation	Monthly			Annual			2012 Trend
	Total Warnings	%	Rank	Total Warnings	%	Rank	
Alcohol	15	9%	4	52	9%	4	
Animal Control Violations	59	35%	1	227	40%	1	
Bicycle Violation	37	22%	2	127	22%	2	
Glass	4	2%	7	16	3%	7	
Illegal Camping	6	4%	6	21	4%	6	
Injury/Destruction City Property	1	1%	10	1	0%	11	
Littering	1	1%	10	2	0%	10	
Other Violations	28	17%	3	65	11%	3	
Parking Violations	14	8%	5	41	7%	5	
Resist/Delay Park Ranger	2	1%	8	5	1%	9	
Smoking	2	1%	8	11	2%	8	
Totals	169	100%		568	100%		

Ranger Report - Citations Places 2012

Location	Monthly		Annual			2012 Trend
	Total Citations	%	Total Citations	%	Rank	
Lower Park	12	48%	37	54%	1	
Middle Park	4	16%	10	14%	3	
Upper Park	8	32%	19	28%	2	
Specialty Parks/Greenways	1	4%	3	4%	4	
Totals	25	100%	69	100%		

Ranger Report - Warnings Places 2012

Location	Monthly		Annual			2012 Trend
	Total Warnings	%	Total Warnings	%	Rank	
Lower Park	93	55%	327	58%	1	
Middle Park	27	16%	88	15%	3	
Upper Park	41	24%	107	19%	2	
Specialty Parks/Greenways	8	5%	46	8%	4	
Totals	169	100%	568	100%		

VOLUNTEER REPORT

1. Monthly Highlights include:

- a. Park Watch, Trail and Crew Leader Volunteer Training held on March 15 – Over 50 people attended the joint training for the Bidwell Park Volunteer Program at which staff presented information on the Park Division, the BPPC, the volunteer program overall and the new Crew Leader and Trail program components.

- b. Woodstock Pizza Community Creek and College Neighborhood Cleanup on March 31 – City staff worked with Woodstock staff on organizing and a city-wide creek cleanup. Woodstocks was in charge of registration; acquired donated trash dumpsters and raffle prizes for the after-cleanup pizza party.
- c. Friends of Bidwell Park – Privet Removal Projects at Little Chico Creek Greenway and Memorial Way – Friends of Bidwell Park have held regular volunteer work sessions at both of these sites – removing glossy privet from the LCC area. Hundreds of medium and large privets have been removed – an amazing feat and transformation to this greenway.

Table 1. Summary of March Volunteer Activity.

LOCATIONS	Organizations/ #volunteers	Total hours	Major Tasks
Annie's Glen	2 Volunteer Days/19 volunteers	57	Trash pickup; grapevine elevation and vinca removal.
Annie's Glen	CSUC Cats in the Community	34	Removed trash and vinca
S. One Mile Gate entrance	Volunteer Day/4 volunteers	12	Remove ornamental bushes
N. One Mile Parking Lot green strip	Volunteer Day/13 volunteers	39	Removed vinca/ivy; and planted native plants – box elders and watered
Cedar Grove/World of Trees	Friends of Bidwell Park (Feb)	94	Olive tree removal and herbicide f/u treatment with certified applicator.
Lost Park	Chico High School horticulture students/11 volunteers	11	Planted a Big leaf maple and 4 sycamore with Urban Forester and Tree Crew help.
Sycamore Restoration Site	2 Volunteer Days/22 volunteers	64	Remove blackberry; transplant sedge; tour site; planted willow; button willow and deergrass
	Interns and Volunteers	21	Ryan Brown cultivating native plants; Heather Smith designed and provided information for the Special Status Plant Species in Bidwell Park poster
Chico High School	CHS horticulture students and Paula Shapiro/7 volunteers	21	transplanting native plants in the green house
Site 27	Sierra View Elementary/60 students, 8 parents and 7 adult volunteer leaders; Stream Team partnership	100	Removed ivy; planted natives; and learned about water quality in Big Chico Creek
Site 31	Rangel Family (Feb & March)	20	Removed vinca
Crew and Trail Training – March 15	30 volunteers	60	Introduction to the volunteer program, and Park Division
Site 8	Volunteer Day/13 volunteers	39	Remove thornless blackberry; weed around native plants; remove hackberry
Bidwell Park	Park Watch patrol	725	
Plant Inventory Project	Friends of Bidwell Park	41.5	
	Bidwell Park Total Hours	1,338,50	

Other City Properties			
Big Chico Creek, Little Chico Creek, Commanche Creek, Lindo Channel bridges, S. campus college area	Woodstocks Pizza/ 320 volunteers	800	Trash cleanup!
9 th & Hazel	Kids and Creeks/14 volunteers	42	Trash cleanup and weed removal
C & 16 th Street area	Neighbors (Feb 7 March) with Lau Ackerman	61	Removing weeds and trash.
Comanche Creek	Southwest Neighbors, CA Conservation Corps, CAVE volunteers and more	65	Removed blackberry and trash
Little Chico Creek and Memorial Way Greenways	Friends of Bidwell Park	197	LCC-158 hr privet tree removal; Memorial Way – 26 hrs removing privet, hackberry & other invasives; 13 hrs invasive plant surveys
	Other City Property Total Hours	1,165	
	Combined Total of Division Volunteer Hours	2,504	

2. Upcoming Events

- a. Earth Day in Bidwell Park! – April 21 – Annual large work day will be held at Cedar Grove from 10 am to 1 pm. Project tasks include: Big Chico Creek Cleanup; weed removal; restoration; native plant garden cleanup and more. Sponsors include: CA Conservation Corps (crew for logistics); Costco (breakfast foods); Recology Zero Waste (veg dumpster); Home Depot (lots of tools and supplies); and Starbucks Coffee (energy).
- b. Blue Oak School worksession – April 27 at their adopted site 6
- c. Parkview Elementary School worksession – May 4 at their adopted site 8
- d. Kids and Creeks various worksessions April and May

Attachments:

Peregrine Point Disc Golf observation log

Bidwell Park Disc Golf Log 2012

Trails						
Badge #	Date	Time	Open/Closed	#Vehicles	Weather	Notes
807	03/02/12	8:45 AM	C/O	2	Good	No violations observed
804	03/02/12	5:00 PM	O	10	Good	No violations observed
804	03/03/12	4:00 PM	O	25	Good	lots of people, no violations observed
807	03/03/12	9:00 AM	O	4	Good	No violations observed
804	03/04/12	2:00 PM	O	30	Good	Special use day, no violations observed. There were 30 + vehicles in the parking area, maybe closer to 40-50 vehicles. Walked a majority of the course and observed about 60+ people and zero violations. I thought they represented themselves very well.
807	03/04/12	8:00 AM	O	1	Good	No violations observed
807	03/08/12	1:30 PM	O	21	Good	Trash detail, 3 leash, 2 alc warnings
804	03/09/12	4:20 PM	O	30	Good	lots of people, 1 alc cite, 1 Dog warning, 1 glass warning
804	03/10/12	5:20 PM	O	15	Good	1 alc cite, 2 dog leash warnings
804	03/11/12	2:00 PM	O	10	Fair	Windy, no violations observed
805	03/19/12	12:10 PM	C	1	Poor	Trashcan overflowing.
804	03/19/12	2:00 PM	C	4	Fair	3 alc cites, appx 10 advised course closed, pulled trash bag
807	03/21/12	3:20 PM	C	4	Fair	15 people advised on course closure, 1 alc. Cite
807	03/22/12	3:45 PM	C	1	Poor	No one observed.
807	03/23/12	7:45 AM	C	0	Good	Course assessment
804	03/23/12	3:30 PM	C	7	Fair	10 people advised of closure, 1 dog cite, 1 alc warning
807	03/24/12	10:30 AM	C	0	Fair	Course assessment
804	03/24/12	3:00 PM	C	4	Fair	9 people notified of closure
804	03/26/12	3:00 AM	C	1	Fair	No one observed.
807	03/30/12	8:30 AM	C	0	Poor	Course assessment, trash detail
804	03/31/12	3:45 PM	C	1	Poor	No one observed.