BIDWELL PARK BIDWELL PARK DISC GOLF/TRAILHEAD AREA CONCEPT PLAN ENVIRONMENTAL IMPACT REPORT MASTER MITIGATION MONITORING PROGRAM AUGUST 2008 **EDAW**

BIDWELL PARK



BIDWELL PARK DISC GOLF/TRAILHEAD AREA CONCEPT PLAN ENVIRONMENTAL IMPACT REPORT

MASTER MITIGATION MONITORING PROGRAM



SCH No. 2004102045

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AUGUST 2008



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MITIGATION MONITORING AND REPORTING PROGRAM I. STATUTORY REQUIREMENTS

Section 21081.6 of the Public Resources Code requires a Lead Agency that approves or carries out a project, where a California Environmental Quality Act (CEQA) document has identified significant environmental effects, to adopt a "reporting or monitoring program for the changes to the project which it has adopted or made a condition of a project approval in order to mitigate or avoid significant effects on the environment."

The City of Chico (City) is the Lead Agency that must adopt the mitigation monitoring program for the Bidwell Park Disc Golf/Trailhead Area Concept Plan Environmental Impact Report (EIR).

The CEQA statutes and Guidelines provide direction for clarifying and managing the complex relationships between a lead agency and other agencies with respect to implementing and monitoring mitigation measures. In accordance with CEQA Guidelines Section 15097(d), "each agency has the discretion to choose its own approach to monitoring or reporting; and each agency has its own special expertise." This discretion will be exercised by implementing agencies at the time they undertake any of the actions identified in the EIR.

II. METHODOLOGY

The City will implement the mitigation measures listed in this Mitigation Monitoring and Reporting Program (MMRP) as part of the Bidwell Park Disc Golf/Trailhead Area Concept Plan project. The MMRP is contained within the following matrix and consists of the following components:

- ♦ Mitigation measures contained in the EIR, as adopted by the City;
- ◆ Party responsible for implementation;
- ♦ Funding responsibility;
- ◆ Implementation Trigger/Timing;
- ♦ Agency responsible for monitoring,
- ♦ Implementation and monitoring Frequency.

This Mitigation Monitoring and Reporting Program shall be maintained in City's files for use in implementing mitigation measures adopted as part of the Bidwell Park Disc Golf/Trailhead Area Concept Plan project.

TABLE 1-1: MASTER MITIGATION MONITORING PROGRAM FOR THE BIDWELL PARK DISC GOLF/TRAILHEAD AREA CONCEPT PLAN ENVIRONMENTAL IMPACT REPORT

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
AIR QUALITY					
Mitigation Measure AQ-2: Control Short-term Construction Emissions	City of Chico	City of Chico	During construction activities	City of Chico	Monitor weekly during construction
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:					
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;					Monitor weekly during construction
 Adequate and applicable dust control measures (identified in detail below) shall be implemented during all phases of project development and construction as outlined below: 					Monitor weekly during construction
 All active construction sites shall be watered at least twice daily. Frequency should be based on the type of operation, soil, and wind exposure. 					Implement daily; monitor weekly during construction
 Chemical soil stabilizers shall be applied to inactive construction areas (disturbed lands within construction projects that are unused for at least four consecutive days). 					Implement as needed, monitor weekly during construction
On-site vehicles speeds shall be limited to a speed of 15 mph on unpaved roads.					Implement daily; monitor weekly during construction

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
 Land clearing, grading, earth moving or excavation activities shall be suspended when winds exceed 20 miles per hour. 					Implement and monitor as needed
 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. 					Monitor weekly during construction
 Vegetative ground cover shall be planted in disturbed areas as soon as possible after disturbance. 					Implement and monitor one time after construction
Inactive storage piles shall be covered.					Monitor weekly during construction
 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. 					Implement daily; monitor weekly during construction
◆ 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).					Monitor weekly during construction
BIOLOGY					
Mitigation Measure BIO-1b: Implement Measures to Protect Butte County Checkerbloom in the Disc Golf/Trailhead Concept Plan Area	City of Chico	City of Chico	Before ground-disturbing activities and during ongoing operation	City of Chico	See below
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					See below

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
Concept Plan:					
◆ 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 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.					Implement during construction; monitor monthly
◆ 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.					Implement prior to construction; monitor monthly during construction
♦ 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.					Implement during construction, monitor monthly during construction
◆ Permanent signage at the trailhead/rest area shall be installed to inform Park users of the presence and sensitivity of Butte County					Install after construction; monitor

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
checkerbloom (and other sensitive resources) on the site.					signage annually
◆ 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 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.					Implement and monitor annually
♦ 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					Monitor annually
◆ 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.					Monitor annually; develop program as needed

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
Mitigation Measure BIO-1d: Implement Measures to Protect Bidwell's Knotweed at the Disc Golf/Trailhead Area	City of Chico	City of Chico	During construction of Disc Golf/Trailhead Area Plans and during ongoing operation	City of Chico	See below
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:			during ongoing operation		
◆ 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.					Implement prior to and during construction; monitor weekly during construction
◆ 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.					Implement prior to and during construction; monitor monthly during construction

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
◆ 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.					Implement prior to construction; monitor monthly during construction
 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. 					Implement following construction; monitor signage annually
◆ 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.					Monitor annually
◆ 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.					Monitor annually; develop program as needed
Mitigation Measure BIO-2c: Implement Measures to Protect and Compensate for Loss of Vernal Pool Invertebrate and Western Spadefoot Habitat	City of Chico	City of Chico	Before and during construction in and near vernal pool habitats and Western spadefoot habitats.	City of Chico	Implement prior to and during construction; monitor as indicated

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
					below
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:					See below
♦ 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.					Implement prior to construction; monitor monthly during construction
◆ 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 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					Implement prior to construction

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
special-status invertebrate and/or spadefoot populations.					
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.					Implement prior to construction
• 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.					Implement prior to, during and after construction; monitor as required
Measures to Protect Nesting Raptors and Burrowing Owls					See below
The following measures shall be implemented to minimize and mitigate the potential disturbance of nesting raptors and burrowing owls.					
Mitigation Measure BIO-2d(1): Protect Tree-Nesting Raptors 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.	City of Chico	City of Chico	Before and during construction during the breeding season of tree-nesting raptors	City of Chico	Implement prior to construction
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. The survey shall be conducted no less than 14 days and no more than 30 days before the beginning of construction or tree removal.					Implement prior to construction

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
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.					Implement during construction
Mitigation Measure BIO-2d(2): Protect Peregrine Falcon 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. If construction commences between June 30 and February 1, no buffer	City of Chico	City of Chico	Before and during construction during the breeding season of peregrine falcons known to nest below the South Rim	City of Chico	Implement during construction Implement during
will be necessary.					construction
Mitigation Measure BIO-2f: Implement Measures to Protect Other Special-status Nesting Birds The following measures shall be implemented to minimize and mitigate the potential disturbance of nesting special-status birds (February to August).	City of Chico	City of Chico	Before and during construction during the breeding season of yellow warbler, yellow-breasted chat, and loggerhead shrike.	City of Chico	See below

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
◆ 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.					Implement during construction
◆ 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.					Implement prior to construction
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:	City of Chico	City of Chico	Before and during construction activities within or in the immediate vicinity of oak woodland habitat; ongoing for site management of the Disc Golf/ Trailhead Area Concept Plan site.	City of Chico	See below
◆ 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 users from straying off the designated trail.					Implement during construction

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
◆ 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.					Implement during and following construction; monitor annually
♦ Grading, trenching, equipment storage, and other soil-disturbing or compacting activities shall not occur within the driplines of oak trees. New structures and impervious-surface materials shall not be placed in the driplines 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.					Implement during and following construction; monitor monthly during construction
♦ To ensure that the driplines 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 driplines 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.					Implement prior to and during construction; monitor monthly during construction
♦ 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.					During and following construction

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
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 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):					Implement during and following construction
 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; 					Implement during and following construction
◆ 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.					Implement following construction; inspect signage annually
◆ 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.					Implement during and following construction; monitor annually
◆ In cases where tees or trails are located within driplines of oaks or in the immediate vicinity of driplines, 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.					Implement during and following construction; monitor annually

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
 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. 					Monitor at least twice yearly following construction
◆ 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.					Implement as needed after construction
• 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.					Implement and monitor as needed after construction
 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. 					Implement and monitor as needed after construction
 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. 					Monitor yearly after planting for five years or until success criteria are achieved
 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. 					Implement after construction

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
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:	City of Chico	City of Chico	Before and during construction of components of the Disc Golf/ Trailhead Area Concept Plan that occur within the immediate vicinity of wildflower fields	City of Chico	See below
 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. 					Implement during construction; monitor as indicated above
 Whenever possible, trail segments, site improvements, facilities and other design features shall be located to minimize impacts to wildflower fields. 					Implement prior to and during construction; inspect monthly during construction
◆ 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).					Implement prior to and during construction; inspect monthly during construction
◆ 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.					Implement prior to and during construction
◆ 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.					Implement prior to and during construction

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
◆ 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.					Prior to, during and after construction; monitor annually
◆ 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.					Install after construction; monitor annually
Mitigation Measure BIO-4: Implement Measures to Protect Jurisdictional Wetlands The following measures shall be implemented to mitigate impacts on waters of the United States: ◆ 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 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.	City of Chico	City of Chico	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	City of Chico	Implement prior to construction
◆ 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.					Implement prior to construction

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
◆ 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.					Implement prior to construction
 Purchasing credits at a mitigation bank is the City's preferred method of mitigation. 					Implement prior to construction
◆ 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.					Implement prior to construction
◆ 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.					Implement prior to construction
CULTURAL RESOURCES					
Mitigation Measure CUL-1: Protect Historic and Unique Archaeological Resources from Impacts	City of Chico	City of Chico	During final design of projects and during construction activities	City of Chico	See below
The City shall implement the following mitigation to reduce potential direct impacts on historic and unique archaeological resources:					

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
◆ 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.					This part of the measure has been completed
◆ If cultural resources are documented in the planning area, they shall be evaluated for their significance.					This part of the measure has been completed
◆ 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.					This part of the measure has been completed
◆ If avoidance of significant sites is not feasible, mitigation in the form of data recovery shall be applied to archaeological sites.					Implement during construction; monitor monthly
◆ 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					Implement during construction; monitor monthly

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
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.					
◆ 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.					Install signage after construction; monitor annually
Mitigation Measure CUL-2b: Protect Human Remains from Vandalism and Inadvertent Destruction	City of Chico	City of Chico	During construction activities	City of Chico	Implement during construction
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 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					

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
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.					
HYDROLOGY					
Mitigation Measure HYDRO-1b: Comply with Water Quality Standards and Waste Discharge Requirements	City of Chico	City of Chico	Before commencement of construction activities	City of Chico	Implement and monitor as indicated in SWPPP
When required, the City shall obtain a General Permit for Discharges of					SWITT
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.					
NOISE					
Mitigation Measure Noise-1: Construction Related Noise	City of Chico	City of Chico	During construction of Park Improvement Projects	City of Chico	N/A
The following measures shall be implemented to mitigate for construction noise control associated with the Disc Golf Trailhead Area Concept Plan Project:			2		

Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
◆ Construction equipment shall be properly maintained and equipped with noise control, such as mufflers, in accordance with manufacturers' specifications					N/A
◆ 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.					N/A
 Construction equipment shall be arranged to minimize travel adjacent to occupied residences and turned off during prolonged periods of non-use. 					N/A
TRAFFIC					
Mitigation Measure Traffic-4: Coordinate with Caltrans	City of Chico	City of Chico	Prior to construction of the Disc Golf/Trailhead Area	City of Chico	N/A
To address the potential increase in traffic hazards resulting from			Concept Plan		
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.					