



BIDWELL PARK



BIDWELL PARK MASTER MANAGEMENT PLAN
UPDATE

INCLUDING

TRAILS PLAN, HORSESHOE LAKE AREA CONCEPT
PLAN, AND CEDAR GROVE AREA CONCEPT PLAN
PROJECTS PROGRAM ENVIRONMENTAL IMPACT
REPORT

MASTER MITIGATION MONITORING PROGRAM



AUGUST 2008

EDAW

BIDWELL PARK



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PROJECTS PROGRAM ENVIRONMENTAL IMPACT REPORT



MASTER MITIGATION MONITORING PROGRAM

SCH No. 2004102045

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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 Master Management Plan Update including the Trails Plan, Horseshoe Lake Area Concept Plan and Cedar Grove Area Concept Plan Program 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 Master Management Plan Update including the Trails Plan, Horseshoe Lake Area Concept Plan and Cedar Grove Area Concept Plan projects. 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 the City’s files for use in implementing mitigation measures adopted as part of the Bidwell Park Master Management Plan Update including the Trails Plan, Horseshoe Lake Area Concept Plan and Cedar Grove Area Concept Plan projects.

TABLE 1-1: MASTER MITIGATION MONITORING PROGRAM FOR THE BIDWELL PARK 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
<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 BPMMP Update including the Trails Plan, Horseshoe Lake Area Concept Plan and Cedar Grove Area Concept Plan Projects:</p> <ul style="list-style-type: none"> ◆ 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; ◆ Adequate and applicable dust control measures (identified in detail below) shall be implemented during all phases of project development and construction as outlined below: <ul style="list-style-type: none"> • All active construction sites shall be watered at least twice daily. Frequency should be based on the type of operation, soil, and wind exposure. • Chemical soil stabilizers shall be applied to inactive construction areas (disturbed lands within construction projects that are unused for at least four consecutive days). 					
					Monitor weekly during construction
					Monitor weekly during construction
					Implement daily; monitor weekly during construction
					Implement as needed, monitor weekly during construction

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<ul style="list-style-type: none"> On-site vehicles speeds shall be limited to a speed of 15 mph on unpaved roads. 					Implement daily; monitor weekly during construction
<ul style="list-style-type: none"> Land clearing, grading, earth moving or excavation activities shall be suspended when winds exceed 20 miles per hour. 					Implement and monitor as needed
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Vegetative ground cover shall be planted in disturbed areas as soon as possible after disturbance. 					Implement and monitor one time after construction
<ul style="list-style-type: none"> Inactive storage piles shall be covered. 					Monitor weekly during construction
<ul style="list-style-type: none"> ◆ 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
<ul style="list-style-type: none"> ◆ 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

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
BIOLOGY					
<p>Mitigation Measure BIO-1c: Implement Measures to Protect Known Occurrences of Butte County Checkerbloom in the Trails Plan and Horseshoe Lake Area Concept Plan Areas</p> <p>To mitigate the potential direct and indirect effects on known occurrences of Butte County checkerbloom during implementation of the Trails Plan and Horseshoe Lake Area Concept Plan areas, the following measures shall be implemented:</p> <ul style="list-style-type: none"> ◆ Before the start of any ground-disturbing activities, the City shall retain a qualified botanist to identify the locations of previously documented occurrences of Butte County checkerbloom in the Trails Plan and Horseshoe Lake Area Concept Plan Areas. The locations shall be clearly flagged or otherwise marked for avoidance during construction. ◆ The flagged occurrences shall be avoided and a buffer of at least 25 feet shall be established. 	City of Chico	City of Chico	Before ground-disturbing activities and during ongoing operation	City of Chico	See below
					Implement prior to construction
					Implement prior to and during construction; monitor monthly

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<p>◆ If complete avoidance of known occurrences of Butte County checkerbloom is infeasible due to other environmental constraints (e.g. vernal pools) or due to Park Improvement Project goals, then such impacts shall be minimized. In those instances, any loss of Butte County checkerbloom shall be mitigated through preservation and enhancement of remaining occurrences and preservation and enhancement of suitable habitat on-site. As a performance standard, mitigation shall ensure no-net loss of the number of Butte County checkerbloom populations/and or habitat within the Park or region. Such measures shall include transplanting and monitoring plans that cannot be avoided. The City shall consult with DFG with respect to such preservation and enhancement measures. This mitigation shall be implemented as part of project implementation, and any monitoring and remedial action requirements specified as part of the consultation shall be implemented by the City</p>					Implement prior to, during and after construction; monitor as determined necessary during consultation
<p>Mitigation Measure BIO-1e: Implement Measures to Protect Unknown Occurrences of Butte County Checkerbloom, Bidwell’s Knotweed, and Other Special-status Plant Species</p> <p>The following measures shall be applied to mitigate potential direct and indirect impacts on as-yet-unknown occurrences of Butte County checkerbloom, Bidwell’s knotweed, and other special-status plant species as a result of implementation of the Cedar Grove Area Concept Plan, Trails Plan, and Horseshoe Lake Area Concept Plan:</p>	City of Chico	City of Chico	Prior to any ground-disturbing activities	City of Chico	See below

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<ul style="list-style-type: none"> ◆ Before the start of any ground-disturbing activities, the City shall retain a qualified botanist to conduct protocol-level special-status plant surveys in areas that have the potential to be disturbed by implementation of the Cedar Grove Concept Plan, Trails Plan, and Horseshoe Lake Concept Plan. These surveys shall be conducted during the appropriate time of year when the potentially occurring species would be present and clearly identifiable (i.e., the blooming period as identified in Table 2.3.2-2 in the BPMMP) and shall focus on those areas supporting suitable habitat for the target species. Survey protocols outlined by DFG shall be followed. CNPS List 4 species with potential to occur in the project sites shall be included in the surveys whenever feasible, so data on their distribution can be taken into consideration during project planning and design. 					Implement prior to construction
<ul style="list-style-type: none"> ◆ For the Trails Plan, special-status plant surveys may be conducted on a segment by segment basis, as specific trail segments are proposed for development. 					Implement prior to construction
<ul style="list-style-type: none"> ◆ If no special-status plant occurrences are found in the areas that would be affected by the site-specific projects, then the results of the surveys shall be documented in a letter report to the City and no further mitigation shall be required. 					Implement prior to construction
<ul style="list-style-type: none"> ◆ If any special-status plant species are identified in the site-specific project areas, the location and extent of each occurrence shall be inventoried and these occurrences shall be avoided, to the maximum extent feasible, while still accomplishing the goals of the four Park Improvement Projects. 					Implement prior to, during and after construction

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<ul style="list-style-type: none"> ◆ If impacts on special-status plants cannot be avoided while accomplishing the Park Improvement Project goals, every effort shall be made to minimize impacts on special-status plants (including CNPS List 4 plants) through design planning. 					Implement during construction
<ul style="list-style-type: none"> ◆ If federally or state listed plant species are identified in the site-specific project areas and it is determined that occurrences of these species would be directly or indirectly affected by the site-specific projects, then appropriate mitigation shall be developed through consultation with USFWS or DFG, depending on the listing status of the plant. Any loss of special-status plants (except CNPS List 4 plants) shall be mitigated through preservation and enhancement of remaining occurrences and preservation and enhancement of suitable habitat on-site. Mitigation shall aim to ensure a no-net loss in special-status plant populations/and or habitat within the Park or region. Impacts to CNPS list 4 plants shall be avoided to the greatest extent possible. If complete avoidance it not feasible, impacts to CNPS plants shall be minimized. 					Implement prior to, during and after construction; monitor annually as applicable
<ul style="list-style-type: none"> ◆ Any mitigation developed through consultation with the regulatory agencies shall be implemented as part of project implementation, and any monitoring and remedial action requirements specified as part of the consultation shall be implemented by the City. 					Implement during and following construction; monitor as determined during consultation

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<p>Mitigation Measure BIO-2b: Implement Measures to Protect Elderberry Shrubs, the Host Plant for the Valley Elderberry Longhorn Beetle</p> <p>The City shall ensure that the following measures are implemented to minimize potential project effects on elderberry shrubs, the host plant for valley elderberry longhorn beetles.</p> <p>Areas that support elderberry shrubs shall be identified and, to the extent feasible and practicable, project elements shall be designed to avoid direct effects on these areas. Before beginning any ground-disturbing project activities, a qualified biologist shall identify areas that support elderberry shrubs and 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 disturbance of potential habitat to the extent feasible and practicable.</p> <p>If impacts to areas supporting elderberry shrubs cannot be avoided, focused surveys shall be conducted. Before the initiation of any ground-disturbing activities, a qualified biologist shall conduct surveys for elderberry shrubs within 100 feet of the impact area, in accordance with USFWS guidelines. All elderberry shrubs with potential to be affected by project activities shall be mapped and the number of stems greater than 1 inch in diameter on each shrub that may require removal shall be counted. If no elderberry shrubs are found during focused surveys, no further action shall be required.</p>	City of Chico	City of Chico	<p>Work near elderberry shrubs</p> <p>Before and during construction activities</p>	City of Chico	<p>See below</p> <p>Implement prior to and during construction</p> <p>Implement prior to construction</p>

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<p>If potential effects to valley elderberry longhorn beetle cannot be avoided, measures shall be implemented to minimize and mitigate unavoidable effects. Before the initiation of any ground-disturbing project activities within 100 feet of elderberry shrubs that are suitable for use by valley elderberry longhorn beetles, USFWS shall be consulted to develop appropriate measures. Such measures shall include those described in Conservation Guidelines for the Valley Elderberry Longhorn Beetle (USFWS 1999) and the VELB Programmatic Consultation (USFWS 1996). Minimization measures shall include implementation of buffers around shrubs that would not be removed, transplanting shrubs to a conservation area, conducting worker awareness training, and periodic biological monitoring. Compensation shall include planting of elderberry seedling or cuttings and associate native species.</p>					<p>Implement prior to and during construction; monitor as determined during consultation</p>
<p>Authorization for take of valley elderberry longhorn beetle 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.</p>					<p>Implement prior to construction</p>
<ul style="list-style-type: none"> ◆ All measures developed through informal consultation with USFWS shall be implemented, as well as any additional measures adopted through a formal permitting process, if applicable. 					<p>Implement prior to, during and after construction</p>

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<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> <ul style="list-style-type: none"> ◆ 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. 	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 below
					See below

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<p>◆ 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 special-status invertebrate and/or spadefoot populations.</p>					<p>Implement prior to construction; monitor monthly during construction</p>
<p>◆ 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.</p>					<p>Implement prior to construction</p>

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<p>◆ 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.</p>					Implement prior to construction
<p>Measures to Protect Nesting Raptors and Burrowing Owls</p> <p>The following measures shall be implemented to minimize and mitigate the potential disturbance of nesting raptors and burrowing owls.</p>					
<p>Mitigation Measure BIO-2d(1): Protect Tree-Nesting Raptors</p> <p>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.</p> <p>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.</p>	City of Chico	City of Chico	Before and during construction during the breeding season of tree-nesting raptors	City of Chico	See below
					Implement prior to construction

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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 guideline 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 prior to construction
Mitigation Measure BIO-2d(3): Protect Burrowing Owl	City of Chico	City of Chico	Before and during construction	City of Chico	See below
Grassland habitat in Middle and Upper Park provides potentially suitable habitat for burrowing owls. The following mitigation measure shall be implemented to identify suitable habitat and protect burrowing owl from adverse effects of the Park Improvement Projects:					

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<p>◆ Before any ground disturbance related to the Park Improvement Projects that occur within or adjacent to grassland habitat, a qualified biologist shall conduct a preconstruction survey to assess habitat suitability for burrowing owl (e.g., based on grassland structure and presence of burrows) and, in areas determined to be suitable, evaluate use by burrowing owls in accordance with current DFG survey guidelines (CDFG 1995). Surveys shall be conducted within 30 days prior to beginning construction activities and shall include the disturbance footprint and a 500-foot radius of the disturbance footprint perimeter. For construction activities occurring during the burrowing owl breeding season (February 1–August 31), surveys shall document whether burrowing owls are nesting on or directly adjacent to disturbance areas. Survey results shall be valid only for the season during which the survey is conducted. If no burrowing owls are documented during the surveys, no further mitigation shall be required.</p>					Implement prior to construction
<p>If burrowing owls are found, the following additional measures shall be implemented:</p>					See below

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<p>◆ Project construction shall avoid all burrowing owl nest sites that could otherwise be disturbed by project construction during the breeding season (February 1–August 31) or while the nest is occupied by adults or young. Avoidance shall include establishment of a nondisturbance buffer zone of at least 250 feet around each nest site. The buffer zone shall be delineated by highly visible temporary construction fencing. Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the nest site is no longer used by burrowing owls.</p>					<p>Implement during construction; monitor monthly</p>
<p>◆ Any artificial burrows created shall be placed in locations with minimal public access and thus will be protected from disturbances. If burrowing owls are found during the nonbreeding season (September 1–January 31), project construction shall avoid the owls and the burrows they are using. Avoidance shall include the establishment of at least a 160-foot nondisturbance buffer zone around each burrow being used. The buffer shall be delineated by highly visible temporary construction fencing. If burrowing owls cannot be avoided, the City shall conduct passive relocation by installing one-way doors in suitable burrow entrances that are used or may be used by the owls and that would be collapsed or degraded by construction activities. This measure is described below. Artificial burrows shall be created in an area of the Park determined suitable by a qualified biologist in coordination with Fish and Game staff. The burrows shall be created according to the conservation measures established for this species.</p>					<p>Implement during construction; monitor monthly</p>

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<p>◆ To displace burrowing owls without destroying eggs, young, or adults, one-way doors shall be installed on owl burrows before February 1 prior to disturbance, and each burrow shall be monitored following DFG’s protocol (California Department of Fish and Game 1995). This measure includes monitoring the burrow for a 48-hour period after the one-way doors are installed. The doors shall be checked every 24 hours following installation to determine whether they are still intact. If the one-way door is still correctly installed after a continuous 48-hour period (i.e., no animals have dug up the door and rendered it useless), then the one-way door shall be removed and the burrows shall be excavated using hand tools and plastic tubing to maintain an escape route for any animals still inside the burrow.</p>					Implement during construction; monitor as indicated
<p>Mitigation Measure BIO-2e: Protect Northwestern Pond Turtle: Identify Habitat, Minimize Potential Impacts, and Mitigate in Consultation with DFG as Needed</p> <p>Before any ground-disturbing project activities begin, a qualified biologist shall confirm potential aquatic and nesting habitat in areas that could be altered or impacted by the Park Improvement Project. The City shall ensure, through coordination of the potential project design with the biologist, that the footprint of project features and construction zones, staging areas, and access routes avoid direct alteration of or indirect effects on suitable habitat for northwestern pond turtle to the extent feasible and practicable.</p>	City of Chico	City of Chico	Prior to construction	City of Chico	Implement prior to construction

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If effects to pond turtle habitat cannot be avoided, measures shall be implemented to minimize unavoidable effects and the amount of habitat affected shall be minimized. Before beginning any project activities in such habitat, DFG shall be consulted to confirm that all feasible measures have been identified and implemented to avoid loss of pond turtles. Such measures shall include, but would not be limited to, relocating turtles to appropriate areas, installing fencing to exclude turtles from nesting in areas where ground disturbance would occur, conducting worker awareness training, and periodic biological monitoring. All measures deemed appropriate and feasible during this consultation with DFG shall be implemented.			Prior to construction		Implement and monitor monthly during construction
Mitigation Measure BIO-2f: Implement Measures to Protect Other Special-status Nesting Birds	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
The following measures shall be implemented to minimize and mitigate the potential disturbance of nesting special-status birds (February to August).					
<ul style="list-style-type: none"> ◆ 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

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<ul style="list-style-type: none"> 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
<p>Mitigation Measure BIO-3b: Implement Measures to Protect Riparian Forest</p> <p>The following measures shall be implemented to mitigate potential impacts on riparian forest associated with implementation of the Trails Plan and Cedar Grove Area Concept Plan:</p> <p>Trails Plan</p> <ul style="list-style-type: none"> The amount of riparian forest affected by construction of new bridges or other activities occurring in or near riparian forest during implementation of the Trails Plan shall be limited to the minimum necessary. Any areas that require removal of riparian vegetation shall be restored with native riparian plant species. 	City of Chico	City of Chico	Before and during construction of a new bridge crossing over Big Chico Creek associated with implementation of the Trails Plan; before and during the construction of any components of the Cedar Grove Area Concept Plan located immediately adjacent to riparian forest.	City of Chico	Implement monthly during construction
					Implement once during construction
					Implement once following construction

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<ul style="list-style-type: none"> ◆ The City shall consult with DFG regarding the need for a Streambed Alteration Agreement before construction of any of the proposed bridges over Big Chico Creek. ◆ If a Streambed Alteration Agreement is deemed necessary for Big Chico Creek crossings, the City shall obtain the agreement before the start of any construction affecting the bed or bank of Big Chico Creek and shall implement all measures that are conditions of the agreement. 					<p>Implement prior to construction</p> <p>Implement prior to construction; monitor as indicated in agreement</p>
Cedar Grove Area Concept Plan					
<ul style="list-style-type: none"> ◆ The Cedar Grove Area Concept Plan shall be implemented to avoid or minimize degradation of areas supporting riparian forest vegetation. High priority shall be given to protecting riparian communities from activities that cause compaction, erosion, vegetation removal, or other degradation according to Natural Community Implementation Strategy I. NC-1. ◆ Where ground-disturbing activities occur in the immediate vicinity of riparian forest, exclusionary fencing shall be installed under the guidance of a qualified botanist along the outside edge of the riparian forest canopy before commencement of construction, to prevent workers and equipment from entering this sensitive habitat. 					<p>Implement prior to, during and after construction</p> <p>Implement prior to and during construction; monitor monthly during construction</p>

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<ul style="list-style-type: none"> ◆ If removal of riparian habitat is required for implementation of the concept plan, the amount shall be limited to the minimum necessary to achieve concept plan objectives. ◆ Any areas that require removal of riparian vegetation shall be restored with native riparian plant species. 					<p>Implement during construction</p> <p>Implement following construction</p>
<p>Mitigation Measure BIO-3c: Implement Measures to Protect Oak Woodland</p> <p>The following measures shall be implemented to mitigate potential impacts on oak woodlands resulting from implementation of the Trails Plan and Horseshoe Lake Area Concept Plan:</p> <ul style="list-style-type: none"> ◆ 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. ◆ 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. 	City of Chico	City of Chico	Before and during construction activities within or in the immediate vicinity of oak woodland habitat	City of Chico	<p>See below</p> <p>Implement during construction</p> <p>Implement during and following construction; monitor annually</p>

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<ul style="list-style-type: none"> ◆ 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. ◆ 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. ◆ 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. 					<p>Implement during and following construction; monitor monthly during construction</p> <p>Implement prior to and during construction; monitor monthly during construction</p> <p>During and following construction</p>
<p>Mitigation Measure BIO-3d: Implement Measures to Protect Wildflower Fields</p> <p>The following measures shall be implemented to minimize potential disturbances to wildflower field communities resulting from implementation of the Trails Plan and Horseshoe Lake Area Concept Plan:</p>	City of Chico	City of Chico	Before and during construction of components of the Trails Plan and Horseshoe Lake Area Concept Plan that occur within the immediate vicinity of wildflower fields	City of Chico	See below

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Mitigation Measure	Party Responsible for Implementation	Funding Responsibility	Implementation Trigger/Timing	Agency Responsible for Monitoring	Frequency
<ul style="list-style-type: none"> ◆ Before the start of construction activities associated with implementation of specific trail sections identified in the Trails Plan and the Horseshoe Lake Area Concept Plan, the City shall retain a qualified botanist to map the location and extent of wildflower fields in specific areas proposed for construction. 					Implement during construction; monitor as indicated above
<ul style="list-style-type: none"> ◆ 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
<ul style="list-style-type: none"> ◆ 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
<ul style="list-style-type: none"> ◆ 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
<ul style="list-style-type: none"> ◆ 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

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<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Permanent signage shall be installed at kiosks located at the Horseshoe Lake 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
<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> <ul style="list-style-type: none"> Before the implementation of specific components of the Trails Plan and Horseshoe Lake 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 Trails Plan and Horseshoe Lake 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

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◆ 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
◆ 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

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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
<p>The City shall implement the following mitigation to reduce potential direct impacts on historic and unique archaeological resources:</p> <ul style="list-style-type: none"> ◆ 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. ◆ If cultural resources are documented in the planning area, they shall be evaluated for their significance. ◆ 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. ◆ If avoidance of significant sites is not feasible, mitigation in the form of data recovery shall be applied to archaeological sites. 					
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
<p>In accordance with the California Health and Safety Code, if human remains are uncovered during ground- disturbing activities related to implementation of the Trails Plan, Horseshoe Lake Area Concept Plan and Cedar Grove Area</p>					

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<p>Concept Plan Projects, 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 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>					

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HYDROLOGY					
<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>	City of Chico	City of Chico	Before commencement of construction activities	City of Chico	Implement and monitor as indicated in SWPPP
NOISE					
<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 Trails Plan, Horseshoe Lake Area Concept Plan and Cedar Grove Area Concept Plan:</p> <ul style="list-style-type: none"> ◆ Construction equipment shall be properly maintained and equipped with noise control, such as mufflers, in accordance with manufacturers' specifications 	City of Chico	City of Chico	During construction of Park Improvement Projects	City of Chico	N/A

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◆ 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