

**EXHIBIT A**

**MITIGATION MONITORING AND REPORTING PROGRAM**

**Nacimiento Lake Drive Bridge Replacement  
SCH#2011101021**

**Monterey County Department of Public Works  
February 2014**

# P R E F A C E

Section 21081 of the California Environmental Quality Act (CEQA) requires a Lead Agency to adopt a Mitigation Monitoring and Reporting Program whenever it approves a project for which measures have been required to mitigate or avoid significant effects on the environment. The purpose of the monitoring and reporting program is to ensure compliance with the mitigation measures during project implementation.

In February 2014, the Final Environmental Impact Report (FEIR) was completed for the Nacimiento Lake Drive at San Antonio River Bridge Replacement project. The FEIR concluded that the implementation of the project could result in significant impacts to biological and historic resources in the environment and, therefore, mitigation measures were incorporated into the proposed project or are required as a condition of project approval. This Mitigation Monitoring and Reporting Program addresses these measures in terms of how and when they will be implemented.

This document does *not* discuss those subjects for which the FEIR concluded that the impacts from implementation of the project would be less than significant.

## MITIGATION MONITORING AND REPORTING PROGRAM

### Project Title

Environmental Impacts	Mitigation Measures	Responsibility for Compliance	Method of Compliance	Timing of Compliance
<b>Biological Resources</b>				
<p><b>Impact BIO-2:</b> The project will result in short - term, construction-related, impacts to aquatic habitat, including the potential degradation of water quality in the river.</p> <p><b>Less-than-Significant with Mitigation</b></p>	<p><b>MM BIO-2.1:</b> Following completion of bridge falsework, the temporary gravel pads will be removed and the channel will be restored to pre-project conditions.</p> <p><b>MM BIO-2.2:</b> No equipment will be operated in the live stream channel.</p> <p><b>MM BIO-2.3:</b> Standard erosion control and slope stabilization measures will be required for work performed in any area where erosion could lead to sedimentation in the river.</p> <p><b>MM BIO-2.4:</b> Silt fencing will be installed between any activities conducted within, or just above the edge of the top-of-bank and the edge of the river to prevent dirt or other materials from entering the channel.</p> <p><b>MM BIO-2.5:</b> No debris, soil, silt, sand, bark, slash, sawdust, cement, concrete, washings, petroleum products or other organic or earthen material will be allowed to enter into or be placed where it may be washed by rainfall or runoff into the river or aquatic habitat.</p> <p><b>MM BIO-2.6:</b> Machinery will be refueled at least 60 feet from any aquatic habitat, and a spill prevention and response plan will be prepared.</p>	<p>Monterey County Department of Public Works</p>	<p>Temporary gravel pads will be removed and the channel will be restored to pre-project conditions pursuant to MM BIO-2.2 through MM BIO-2.6.</p>	<p>Following the completion of bridge falsework.</p>
<p><b>Impact BIO-3:</b> The project will result in both permanent and temporary impacts to wetlands habitat located on the project site.</p>	<p><b>MM BIO-3.1:</b> Wooden mats or similar products will be used where it is necessary for personnel and equipment to cross over and gain construction access within wetlands. This will reduce the intensity of impacts to the soil and vegetation, thus limiting the impact intensity and allowing these areas to quickly recover once construction is complete.</p> <p><b>MM B IO -3.2:</b> A qualified restoration ecologist will inspect the temporarily-</p>	<p>Monterey County Department of Public Works</p>	<p>All measures shall be printed on construction documents, contracts, and project plans.</p>	<p>MM BIO-3.1 shall be implemented for the duration of construction activities.</p> <p>MM BIO-3.2</p>

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<b>Less-than-Significant with Mitigation</b>	<p>impacted wetlands following construction. If it is determined these areas require revegetation or remedial soil treatment, a native seed mixture appropriate for that area will be applied. It is unlikely that the freshwater wetlands will require re-seeding, as these wetlands occur within the low-flow channel and temporary impacts should not affect the perennial rhizomes of these plants. In seasonal wetlands, areas determined to require active post-construction revegetation efforts may be seeded with species occurring at the site such as wire rush and Mexican rush.</p> <p><b>MM BIO-3.3:</b> The permanent loss of 0.03 acres of freshwater emergent wetlands and 0.01 acres of seasonal wetlands will be mitigated at a 2:1 mitigation-to-impact ratio. Thus, 0.06 acres of freshwater emergent wetlands and 0.02 acres of seasonal wetlands will be created. The wetlands will be created within the biological study area (BSA), preferably within the area where the existing bridge will be removed. The wetlands will be adjacent to the riparian mitigation described above.</p>			shall be implemented following the completion of construction activities.
<p><b>Impact BIO-4:</b> The project will result in both permanent and temporary impacts to riparian habitat located on the project site.</p> <p><b>Less-than-Significant with Mitigation</b></p>	<b>MM BIO-4.1:</b> Mitigation for impacts to riparian habitat will consist of the creation of in-kind habitat. 0.15 acres of willow and mule fat riparian scrub, as well as the 0.08 acres of wetlands (see MM -BIO-3.3), will be planted in areas close to the existing OHW of the San Antonio River. There is approximately 0.67 acres of non-wetland areas that does not currently support riparian vegetation available on-site that contains the existing bridge and road approaches to be removed by the project, and between the existing road and proposed bridge abutment. Since much of this area would require restoration following structure and roadway removal in any case, it presents a good opportunity for on-site, in-kind mitigation.	Monterey County Department of Public Works	All measures shall be printed on construction documents, contracts, and project plans.	Following completion of construction activities.
<b>Impact BIO-6:</b> Construction activities have the potential to adversely affect steelhead and Monterey roach.	<b>MM BIO-6.1:</b> All work within the banks of the river will occur during the dry season (roughly 15 June to 15 October, although the County may engage in consultation with NMFS to extend this period, if dry weather permits). During this time, stream flows are expected to be at annual lows to mid flows (though releases from the dam upstream will influence flow levels to some extent), and movement of steelhead or roach through the BSA, if they are	Monterey County Department of Public Works	During demolition and construction activities, netting and other structures will be installed under the existing and the	MM BIO-6.2 shall be implemented during demolition and construction activities.

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	<p>present at all, will be minimal.</p> <p><b>MM BIO-6.2</b> During demolition and construction activities, netting and other structures will be installed under the existing bridge and the proposed bridge to prevent debris from entering the channel, as such debris could degrade water quality and potentially injure fish in the river.</p> <p><b>MM BIO-6.3</b> A construction personnel education program will be given by a qualified biologist before the commencement of construction to explain to construction personnel how best to avoid the accidental take of steelhead or roach. The approved biologist will conduct a training session that will be scheduled as a mandatory informational field meeting for contractors and all construction personnel. For additional details regarding the duties of the biologist and other information related to this measure, please see Section 2.1.8.4.</p> <p><b>MM BIO-6.4:</b> A qualified biologist will be present to monitor all activities involving the placement of gravel (for temporary falsework pads) in the river, including the construction of a sandbag coffer dam to encompass the pads. For additional details regarding the duties of the biologist and other information related to this measure, please see Section 2.1.8.4.</p> <p><b>MM BIO-6.5:</b> While temporary falsework and associated pads are present within the river, a channel of free-flowing water between the pads will remain to allow fish to continue to move through the project area.</p>		<p>proposed bridge.</p> <p>A construction personnel education program shall be given by a qualified biologist pursuant to MM BIO-6.3.</p> <p>A qualified biologist shall be present to monitor all activities involving the placement of gravel in the river, including the construction of a sandbag coffer dam to encompass the pads, pursuant to MM BIO-6.4.</p> <p>All measures shall be printed on construction documents, contracts, and project plans.</p>	<p>MM BIO-6.3 shall be implemented prior to the commencement of construction.</p> <p>MM BIO-6.4 shall be implemented for the duration of construction activities.</p>
<p><b>Impact BIO -7:</b> Construction activities have the potential to adversely affect up one or more of the following</p>	<p><b>MM BIO-7.1:</b> Prior to the start of construction or demolition activities, a qualified biologist will conduct a preconstruction survey for these species. If any of the above animals are found within the BSA, the qualified biologist will relocate them to a suitable location outside of the BSA.</p> <p><b>MM BIO-7.2:</b> Prior to the start of construction or demolition activities, exclusion</p>	<p>Monterey County Department of Public Works</p>	<p>A preconstruction survey shall be conducted by a qualified biologist pursuant to MM BIO-7.1.</p>	<p>MM BIO 7.1 and MM BIO 7.2 shall be implemented prior to the commencement of construction and demolition</p>

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<p>special status species of reptiles and amphibians: western pond turtle, California horned lizard, San Joaquin whipsnake, and silvery legless lizard.</p> <p><b>Less-than-Significant with Mitigation</b></p>	<p>fencing will be installed around the work area and between the work area and the water's edge where feasible. When the fence is completed, the area within the fence will be surveyed for the species described above. The qualified biologist will safely relocate any individuals of these species that are detected within the exclusion fence to a suitable location outside of the BSA.</p> <p><b>MM BIO-7.3:</b> Each morning prior to the start of construction, a designated construction crew member who has received training in recognizing and handling these species by the qualified biologist will search the area within the exclusion fence for amphibians and reptiles. If any individuals of these species are found, the designated crew member will relocate those individuals to a suitable location outside of the BSA.</p>		<p>Exclusion fencing shall be installed around the work area and between the work area and the water's edge, where feasible. The fenced area will be surveyed for the species described in Impact BIO-7 and a qualified biologist will safely relocate any individuals of these species detected within the exclusion fence to a suitable location outside of the BSA.</p> <p>All measures shall be printed on construction documents, contracts, and project plans.</p>	<p>activities.</p> <p>MM BIO-7.3 shall be implemented each morning prior to the start of construction for that day.</p>
<p><b>Impact BIO -8:</b> Construction activities have the potential to adversely affect bald or golden eagles if they are nesting in the vicinity</p>	<p><b>MM BIO-8.1:</b> A winter survey covering a one-mile buffer around the project area will be conducted to determine if potential golden eagle nest sites are present within the buffer. For details regarding the timing, scope, and reporting requirements for this survey, please see Section 2.1.8.6.</p> <p><b>MM BIO-8.2:</b> A preconstruction eagle survey will be undertaken. The survey will cover the one-mile buffer and determine if any golden or bald eagle nests are</p>	<p>Monterey County Department of Public Works</p>	<p>A winter survey covering a one-mile buffer around the project area shall be conducted to determine if potential eagle</p>	<p>MM BIO-8.1 shall be implemented during the winter preceding the commencement of construction.</p>

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<p><b>Less-than-Significant with Mitigation</b></p>	<p>present/active. The survey results will be provided to the (United States Fish and Wildlife Service) USFWS prior to the start of construction.</p> <p><b>MM BIO-8.3:</b> If any nests are determined to be present within one-half mile of the project site at the start of construction, a Disturbance Permit from the USFWS will be obtained by the County.</p>		<p>nest sites are present within the buffer, pursuant to MM BIO-8.1</p> <p>A preconstruction eagle survey covering a one-mile buffer around the project shall be conducted to determine if potential bald eagle nests are present or active prior to the start of construction. The results shall be submitted to the USFWS; if any nests are determined to be present, a Disturbance Permit from the USFWS shall be obtained.</p> <p>All measures shall be printed on construction documents, contracts, and project plans.</p>	<p>MM BIO-8.2 and MM BIO-8.3 shall be implemented prior to the commencement of construction.</p>
<p><b>Impact BIO-10:</b> If present, the project</p>	<p><b>MM BIO-10.1:</b> The project will fully mitigate for impacts to riparian habitat, the habitat type of greatest value to the least Bell's vireo. This mitigation is described</p>	<p>Monterey County Department of Public Works</p>	<p>Project activities should be timed to avoid the least</p>	<p>For the duration of the project.</p>

Environmental Impacts	Mitigation Measures	Responsibility for Compliance	Method of Compliance	Timing of Compliance
<p>has the potential to adversely least Bell's vireos.</p> <p><b>Less-than - Significant with Mitigation</b></p>	<p>in MM -BIO-4.1.</p> <p><b>MM BIO-10.2:</b> Project activities will be timed to avoid the least Bell's vireo breeding season (1 April to 31 July) to the greatest extent practicable.</p> <p><b>MM BIO-10.3:</b> Where vegetation is to be removed by the project, potential nesting substrates (e.g., bushes, trees, grass, and suitable artificial surfaces) that will be disturbed by the project will be removed during the non-breeding season (August 1 to March 31), if feasible, to help preclude nesting.</p> <p><b>MM BIO-10.4:</b> If it is not feasible to schedule vegetation removal and commencement of construction activities during the non-breeding season, then pre-construction surveys for nesting birds will be conducted by a qualified ornithologist to detect any least Bell's vireos using the areas and to ensure that no nests will be disturbed during project implementation. This survey will be conducted no more than 7 days prior to the initiation of construction activities. During this survey, the ornithologist will inspect all trees, shrubs, and other potential nesting habitats in and immediately adjacent to the impact areas for nests. In the unlikely event that nesting least Bell's vireos are detected during such a survey, the biologist will determine an appropriate buffer (typically approximately 250 feet) in consultation with the USFWS and CDFW.</p>		<p>Bell's vireo breeding season, between April 1 and July 31, to the greatest extent practicable.</p> <p>Where vegetation is to be removed by the project, potential nesting substrates that will be disturbed by the project shall be removed during the non-breeding season, between August 1 to March 31, to the extent feasible, to help preclude nesting.</p> <p>If it is not feasible to schedule vegetation removal and construction activities during the non-breeding season, then pre-construction surveys for nesting birds shall be conducted by a qualified ornithologist pursuant to MM</p>	

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			BIO-10.4.  All measures shall be printed on construction documents, contracts, and project plans.	
<p><b>Impact BIO-11:</b> The project has the potential to adversely affect up one or more of the following special status species of birds: white-tailed kite, loggerhead shrike, yellow warbler, and tricolored blackbird.</p> <p><b>Less-than-Significant with Mitigation</b></p>	<p><b>MM BIO-11.1:</b> The project will fully mitigate for impacts to wetlands and riparian habitat, the habitats type of greatest value to these four bird species. This mitigation is described in MM –BIO-3.1 and MM -BIO-4.1.</p> <p><b>MM BIO-11.2:</b> Impacts to any of these species that may be nesting within the project limits will be avoided. The mitigation is the same as that for nesting birds protected by the Migratory Bird Treaty Act and California Fish &amp; Game Code. Please see MM -BIO-16.1 through MM -BIO-16.3.</p>	Monterey County Department of Public Works	All measures shall be printed on construction documents, contracts, and project plans.	For the duration of the project.
<p><b>Impact BIO-15:</b> If present, the project has the potential to adversely San Joaquin kit foxes.</p> <p><b>Less-than - Significant with Mitigation</b></p>	<p><b>MM BIO-15.1:</b> All surveys, den destructions, and monitoring related to the kit fox will be conducted by a qualified biologist. The qualified biologist will conduct pre-construction surveys no less than 14 days and no more than 30 days prior to the beginning of ground disturbance and/or construction activities. This survey will identify kit fox habitat features on the project site and evaluate use by kit fox and, if possible, assess the potential impacts to the kit fox by the proposed activity. The status of all dens will be determined and mapped.</p> <p><b>MM BIO-15.2:</b> Written results of the pre-construction survey will be submitted to the County immediately; the County will then notify the USFWS within 5 days</p>	Monterey County Department of Public Works	Pre-construction surveys shall be conducted to identify kit fox habitat features on the project site and assess the potential impacts of the project to the kit fox. The surveys will be	For the duration of the project.  Preconstruction surveys shall be conducted no less than 14 days and no more than 30 days prior to the beginning of ground

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	<p>after survey completion and prior to the start of ground disturbance and/or construction activities. If a natal/pupping den is discovered within the project area or within 200-feet of the project boundary, the County shall be immediately notified, and shall in turn notify the USFWS and CDFW. If the preconstruction survey reveals an active natal or pupping den or new information, the County will contact the USFWS and CDFW immediately to obtain the necessary take authorization/permit. If a den is found, measures to avoid impacts to the den (including buffers and seasonal restrictions on work near the den) will be implemented, and if necessary, the foxes will be evicted after the non-breeding season.</p>		<p>conducted by a qualified biologist pursuant to MM BIO-15.1.</p> <p>Written results of the pre-construction surveys shall be submitted to the County pursuant to MM BIO-15.2.</p> <p>All measures shall be printed on construction documents, contracts, and project plans.</p>	<p>disturbance and/or construction activities.</p>
<p><b>Impact BIO-16:</b> Construction activities associated with the project have the potential to adversely affect nesting migratory birds.</p> <p><b>Less-than-Significant with Mitigation</b></p>	<p><b>MM BIO-16.1:</b> Construction activities will be avoided during the nesting season to the extent feasible. The nesting season for most birds in this region of California extends from February 1 to August 31. If vegetation is to be removed by the project, potential nesting substrate (e.g., bushes, trees, snags, grass, and suitable artificial surfaces) that will be disturbed should be removed during the non-breeding season (i.e., they should be removed between 1 September and 31 January), if feasible, to help preclude nesting.</p> <p><b>MM BIO-16.2:</b> If it is not feasible to schedule vegetation removal during the non-breeding season, then pre-construction surveys for nesting birds will be conducted by a qualified ornithologist to ensure that no nests will be disturbed during project implementation. This survey will be conducted no more than seven days prior to the initiation of construction activities. During this survey, the ornithologist will inspect all trees, shrubs, and other potential nesting habitats in and immediately adjacent to the BSA for nests. If an active nest is found sufficiently close to work areas to be disturbed by these activities, the ornithologist, in consultation with the</p>	<p>Monterey County Department of Public Works</p>	<p>Construction activities should be avoided during the nesting season, between February 1 and August 31, to the extent feasible. Vegetation should be removed to preclude nesting, as necessary, during the non-breeding season, between September 1 and January 31, to the extent feasible.</p>	<p>For the duration of the project.</p> <p>Preconstruction surveys shall be conducted no more than seven days prior to the initiation of disturbance and/or construction activities.</p>

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	<p>CDFW, will determine the extent of a buffer zone to be established around the nest, typically 250 feet for raptors and 50 feet for other birds, to ensure that no nests will be disturbed.</p> <p><b>MM BIO-16.3:</b> Alternatively, nest starts may be removed on a regular basis (e.g., every 2nd or 3rd day), starting in late January or early February, or measures such as exclusion netting may be placed over the existing bridge to prevent active nests from becoming established.</p>		<p>If vegetation cannot be scheduled to be removed during the non-breeding season, then pre-construction surveys shall be conducted by a qualified ornithologist pursuant to MM BIO-16.2.</p> <p>Alternatively, nest starts may be removed on a regular basis pursuant to MM BIO-16.3.</p> <p>All measures shall be printed on construction documents, contracts, and project plans.</p>	
<b>Historic Resources</b>				
<b>Impact HIST-1:</b> The project will demolish	<b>MM HIST-1.1:</b> Prior to demolition, the bridge will be photo documented to an archival level in accordance with the standards of the Historic American	Monterey County Department of	All measures shall be printed	For the duration of the project.

<b>Environmental Impacts</b>	<b>Mitigation Measures</b>	<b>Responsibility for Compliance</b>	<b>Method of Compliance</b>	<b>Timing of Compliance</b>
<p>a locally-significant historic resource, the Nacimiento Lake Drive bridge over the San Antonio River.</p> <p><b>Significant Unavoidable Impact</b></p>	<p>Engineering Record (HAER).</p> <p><b>MM HIST-1.2:</b> The County will install a historic bridge marker or commemorative plaque at the site of the replacement bridge. The design of this feature will be submitted to the Monterey County Historic Resources Review Board for review and input.</p>	<p>Public Works</p>	<p>on construction documents, contracts, and project plans.</p>	