
4. MITIGATION MONITORING PLAN

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MITIGATION MONITORING PLAN

4.0 INTRODUCTION

Section 15097 of the California Environmental Quality Act (CEQA) requires all state and local agencies to establish monitoring or reporting programs for projects approved by a public agency whenever approval involves the adoption of either a “mitigated negative declaration” or specified environmental findings related to environmental impact reports.

The following is the Mitigation Monitoring Plan (MMP) for the Fairfax Conversion Project. The intent of the MMP is to prescribe and enforce a means for properly and successfully implementing the mitigation measures as identified within the Environmental Impact Report for this project.

4.1 MITIGATION MONITORING PLAN

The MMP contained herein is intended to satisfy the requirements of CEQA as they relate to the Environmental Impact Report for the Fairfax Conversion Project prepared by the California Department of Forestry and Fire Protection (CAL FIRE). This MMP is intended to be used by CAL FIRE staff and mitigation monitoring personnel to ensure compliance with mitigation measures during project implementation. Mitigation measures identified in this MMP were developed in the Environmental Impact Report prepared for the proposed project.

The Fairfax Conversion Project Environmental Impact Report presents a detailed set of mitigation measures that will be implemented throughout the lifetime of the project. Mitigation is defined by CEQA as a measure which:

- Avoids the impact altogether by not taking a certain action or parts of an action;
- Minimizes impacts by limiting the degree or magnitude of the action and its implementation;
- Rectifies the impact by repairing, rehabilitating, or restoring the impacted environment;
- Reduces or eliminates the impact over time by preservation and maintenance operations during the life of the project; or
- Compensates for the impact by replacing or providing substitute resources or environments.

Monitoring and documenting the implementation of mitigation measures will be coordinated by CAL FIRE. The table attached to this report identifies the mitigation measure, the monitoring action for the mitigation measure, the responsible party for the monitoring action, and timing of the monitoring action. The applicant will be responsible for fully understanding and effectively

implementing the mitigation measures contained within the MMP. CAL FIRE will be responsible for ensuring compliance.

During construction of the project, CAL FIRE will assign an inspector who will be responsible for field monitoring of mitigation measure compliance. The inspector will report to CAL FIRE and will be thoroughly familiar with permit conditions and the MMP. In addition, the inspector will be familiar with construction contract requirements, construction schedules, standard construction practices, and mitigation techniques. In order to track the status of mitigation measure implementation, field-monitoring activities will be documented on compliance monitoring report worksheets. The time commitment of the inspector will vary depending on the intensity and location of construction. Aided by the attached table, the inspector will be responsible for the following activities:

- On-site, day-to-day monitoring of construction activities;
- Reviewing construction plans and equipment staging/access plans to ensure conformance with adopted mitigation measures;
- Ensuring contractor knowledge of and compliance with the MMP;
- Verifying the accuracy and adequacy of contract wording;
- Having the authority to require correction of activities that violate mitigation measures, securing compliance with the MMP;
- Acting in the role of contact for property owners or any other affected persons who wish to register observations of violations of project permit conditions or mitigation. Upon receiving any complaints, the inspector shall immediately contact the construction representative. The inspector shall be responsible for verifying any such observations and for developing any necessary corrective actions in consultation with the construction representative and CALFIRE;
- Obtaining assistance as necessary from technical experts in order to develop site-specific procedures for implementing the mitigation measures; and
- Maintaining a log of all significant interactions, violations of permit conditions or mitigation measures, and necessary corrective measures.

4.2 MITIGATION MONITORING PLAN

The following plan indicates the mitigation measure number, the impact the measure is designed to address, the mitigation, the monitoring agency, implementation schedule, and an area for sign-off indicating compliance.

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Impact Number	Impact	Mitigation Measure	Monitoring Agency	Implementation Schedule	Sign-off
3.3 Air Quality					
3.3-1	Air quality impacts related to site preparation activities such as logging, grading, and excavation.	<p><i>3.3-1 Prior to the issuance of a grading permit, the project contractor shall prepare an Erosion Prevention and Dust Control Plan. The plan shall be followed by the project's grading contractor and submitted for review and approval by the County Permit and Resource Management Department, which will be responsible for field verification of the plan during construction. The plan shall include the following control measures necessary for the proposed project:</i></p> <ul style="list-style-type: none"> • <i>Water all active and disturbed areas at least twice daily and more often during windy periods. Active areas adjacent to existing land uses shall be kept damp at all times, or shall be treated with non-toxic stabilizers or dust palliatives.</i> • <i>Apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas.</i> • <i>Limit traffic speeds on unpaved areas and roads to 15 mph.</i> 	<p>County Permit and Resource Management Department</p> <p>Northern Sonoma Air Pollution Control Department (Northern Sonoma ACPD)</p>	<p>Prior to issuance of a grading permit.</p> <p>Field verification during construction.</p>	

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3.4 Biological Resources					
3.4-1	Impacts to thin-lobed horkelia (<i>Horkelia tenuiloba</i>).	<p><i>3.4-1 Prior to the initiation of timber harvest operations, the applicant shall establish a 15.65-acre preserve on lands that have been designated on the west side of the project site that will protect the largest population of thin-lobed horkelia from the proposed project impacts (Figure 3.4-4). This preserve will be dedicated in a permanent deed restriction recorded on the title of the property that shall run with the land in perpetuity.</i></p> <p><i>The thin-lobed horkelia preserve shall be fenced prior to initiation of timber harvest operations according to the Fencing Plan prepared by Erickson Engineering. Wildlife-friendly fencing shall be installed along the northern and western perimeter of the preserve, with one gate at the northern road entrance. Wildlife-friendly fencing shall include a metal post and wire fence that would allow wildlife access to the preserves. No fencing will be necessary along the southern preserve boundary, as the preserve will be contiguous with a protected Streamside Conservation Area. Likewise, no fencing will be required along the eastern preserve boundary, as the adjoining forested lands are steep and undevelopable.</i></p>	<p>CAL FIRE California Department of Fish and Game (CDFG)</p>	<p>Prior to the initiation of timber harvest operations the applicant shall establish a 15.65-acre preserve on lands that have been designated on the west side of the project site that will protect the largest population of thin-lobed horkelia.</p> <p>Five years of plant monitoring.</p>	

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		<p><i>Tree saplings shall be cleared on a yearly basis to prevent forest succession within the preserve. In addition, the vineyard has been designed to ensure that agricultural runoff does not enter the preserve. Following completion of vineyard development activities, the applicant shall ensure that any herbicide applications which may take place in the nearby vineyard unit(s) do not affect or enter the thin-lobed horkelia reserve.</i></p> <p><i>Road access into the thin-lobed horkelia preserve shall be limited to vehicles for the purpose of wetland creation, preserve management, maintenance, and scientific study. Timber harvest operations vehicles will use the new road that will be constructed north and west of the thin-lobed horkelia preserve to access the area south of the preserve as indicated on the revised Vineyard Plan dated May 24, 2010.</i></p> <p><i>Weed-free mulch, native slash or clean straw shall be used for erosion control throughout the project site. All cover crops and erosion control seed mixes will use either native grasses derived from genetic stock from the region of the project site, or the sterile wheat/tall wheat hybrid, Regreen©. Within the horkelia preserve, erosion control shall be used on existing and temporary roads in areas where the potential exists for</i></p>			

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		<p><i>excessive sediment delivery to preserves and existing wetlands. All necessary erosion and sediment controls will be in place during activity associated with the construction of the access road west of the thin-lobed horkelia preserve.</i></p> <p><i>In accordance with CDFG Guidelines for Conservation of Sensitive Plant Resources Within the Timber Harvest Review Process and During Timber Harvesting Operations¹, a five-year mitigation monitoring plan for the thin-lobed horkelia preserve shall be implemented as follows. The mitigation monitoring plan will ensure that timber operations are conducted consistent with the mitigation measures specified in the EIR.</i></p> <p><i>To determine if the thin-lobed horkelia preserve is successfully supporting thin-lobed horkelia, the applicant shall have a qualified biologist conduct five years of plant monitoring. Annual spring sampling will be conducted when thin-lobed horkelia is in flower. Generally this species is in flower throughout its range between the months of May, June, and July. In 2009, thin-lobed</i></p>			

¹ CDFG 2005. *Guidelines for Conservation of Sensitive Plant Resources Within the Timber Harvest Review Process and During Timber Harvesting Operations*. Sacramento: California Department of Fish and Game, Habitat Conservation and Planning Branch. 9p.
<https://r1.dfg.ca.gov/portal/Portals/12/THPBotanicalGuidelinesJuly2005.pdf>.

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		<p><i>horkelia</i> was in full bloom in the proposed thin-lobed <i>horkelia</i> preserve in mid-June.</p> <p>Monitoring shall include establishing fixed line sampling transects. In this fashion, trends in the plant communities can be ascertained. Sampling along fixed transects shall occur using a point intercept method derived from Bonham² to demonstrate and quantify the extent of cover of the monitored species. The systematic point-intercept sampling method will be used to determine the frequency of plant species or group of plant species in the community.</p> <p>Plant cover data for the monitored species shall be arrayed each year and compared. Because of normal stochastic fluctuations in all plant populations, only precipitous drops in cover of the monitored species shall be cause for further investigation. Plant cover data shall be arrayed over the five year monitoring period to determine population trends for the monitored plants. If the trend is significantly down, the annual monitoring report shall include an assessment of the possible reasons for population declines and recommendations for remedial actions that could reverse trends. Weather conditions such as</p>			

² Bonham, C.D. 1989. *Measurements For Terrestrial Vegetation*. John Wiley & Sons. New York. 338 pp.

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		<p><i>drought and acts of God such as fire that cause precipitous population declines shall not constitute sufficient reason to take remedial actions. Any proposed remedial actions shall be discussed with CDFG in advance of the implementation of such measures.</i></p> <p><i>At the end of each monitoring year, a monitoring report shall be submitted to the CDFG and CAL FIRE. At the end of the five-year monitoring period, CDFG shall be invited to examine the plant preserves to further go over conclusions presented in the final five-year monitoring report. At the end of the five-year monitoring period, provided the preserve is supporting a stable thin-lobed horkelia population, all monitoring requirements shall terminate.</i></p>			
3.4-2	Impacts to Annapolis manzanita (<i>Arctostaphylos manzanita</i> x <i>A. stanfordiana</i>).	3.4-2 <i>Prior to initiation of timber harvest operations, the applicant shall set aside an area totaling approximately 4.4 acres on the east side of the project site (see Figure 3.4-4) for the preservation of Annapolis manzanita identified on the Artesa property. The preserve shall be dedicated in perpetuity through a permanent deed restriction recorded on the title of the property. The preserve area shall not be developed. Timber operations in the areas adjacent to the preserve shall use directional falling so that timber marked for removal falls</i>	CAL FIRE CDFG	Prior to the initiation of timber harvest operations, the applicant shall set aside an area totaling approximately 4.4 acres on the east side of the project site for the preservation	

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		<p><i>away from the reserve area. Heavy equipment and vehicles shall be excluded from the preserve area during timber harvest operations and project development and operation.</i></p> <p><i>The manzanitas within the preserve will be protected by fencing that will be installed prior to initiation of timber harvest operations and maintained by the owner in perpetuity. The preserve shall be fenced according to the Fencing Plan prepared by Erickson Engineering. Wildlife-friendly fencing shall include a metal post and wire fence that would allow wildlife access to the preserves. The preserve will be protected by vineyard fencing where it abuts with Vineyard Unit 4. Vineyard fencing will consist of standard vineyard deer fencing. Wildlife-friendly fencing will protect the east and south side of the preserve where it abuts with Annapolis Road and a dirt access road, respectively. Gates accessing the preserve shall remain locked at all times. It should be noted that extra care has been taken to ensure that there is a cohesive wildlife corridor planning element in the vineyard plan. All tributary and other preserves are only fenced with vineyard fencing where vineyards abut these protected features. Otherwise all remain open to larger contiguous blocks of unfenced lands.</i></p>		<p>of Annapolis Manzanita.</p> <p>Five years of plant monitoring.</p>	

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		<p><i>Tree saplings shall be cleared on a yearly basis to prevent forest succession within the preserve. The vineyard has been designed to ensure that agricultural runoff does not enter the preserve. Following completion of vineyard development activities, the applicant shall ensure that any herbicide applications which may take place in the nearby vineyard unit(s) do not affect or enter the Annapolis manzanita reserve.</i></p> <p><i>Weed-free mulch, native slash or clean straw shall be used for erosion control throughout the project site. All cover crops and erosion control seed mixes will use either native grasses derived from genetic stock from the region of the project site, or the sterile wheat/tall wheat hybrid, Regreen©. Within the horkelia preserve, erosion control shall be used on existing and temporary roads in areas where the potential exists for excessive sediment delivery to preserves and existing wetlands. All necessary erosion and sediment controls will be in place during activity associated with the construction of the access road west of the thin-lobed horkelia preserve.</i></p> <p><i>A five-year mitigation monitoring plan for the Annapolis manzanita preserve shall be implemented that includes the following measures. Monitoring shall include measuring</i></p>			

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		<p><i>the area occupied by Annapolis manzanita. As Annapolis manzanita is a woody perennial plant, it can be monitored at any time of the year, so surveys that are conducted concurrently with thin-lobed horkelia monitoring are acceptable. Aerial coverage of Annapolis manzanita shall be measured by GPS mapping with submeter accuracy. In this fashion, trends in the plant communities can be ascertained. It is expected that over a five year monitoring period the area occupied by Annapolis manzanita will remain fairly consistent. In the event that aerial coverage by Annapolis manzanita drops significantly over the five year monitoring period, the reasons for decline shall be investigated.</i></p> <p><i>Remedial actions shall include replanting and other measures necessary to reverse trends. Weather conditions such as drought and acts of God such as fire that cause precipitous population declines shall not constitute sufficient reason to take remedial actions. Any proposed remedial actions shall be discussed with CDFG in advance of the implementation of such measures.</i></p> <p><i>At the end of each monitoring year, a monitoring report shall be submitted to the CDFG and CAL FIRE. At the end of the five-year monitoring</i></p>			

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		<i>period, CDFG shall be invited to examine the plant preserves to further go over conclusions presented in the final five-year monitoring report. All monitoring requirements shall terminate at the end of the five-year monitoring period, provided the preserves are supporting a stable Annapolis manzanita population.</i>			
3.4-4	Impact to the northern spotted owl (<i>Strix occidentalis caurina</i>).	3.4-4(a) <i>While a single year of survey can be conducted pursuant to the USFWS's 1992 survey protocol (USFWS 1992a), in this protocol the USFWS encourages completion of a two-year survey "to provide a higher likelihood of accurately determining presence or absence of spotted owls." No northern spotted owls were detected during a two-year survey protocol survey conducted on the project site in 2006 and 2007 pursuant to the USFWS' 1992 survey protocol. Pursuant to this survey protocol, completion of a two-year survey with negative results remains a valid finding for two years after the survey is completed. Thus, if timber harvesting had begun prior to 2010, no further surveys would have been necessary pursuant to the 1992 protocol. However, because timber harvesting will commence in 2012 or in later years, a second set of full protocol-level surveys was conducted pursuant to the Draft 2010 Northern Spotted Owl Survey Protocol in 2010 and in accordance with the final revised 2011 Northern Spotted Owl</i>	CAL FIRE United States Fish and Wildlife Service (USFWS)	Pursuant to the 2011 Northern Spotted Owl Survey Protocol, and consistent with the recommendations of the USFWS in this protocol, "Spot Check Surveys" shall be conducted in survey years 3 (2012) and 4 (2013) in order for the negative survey findings to remain valid in years 2012 and 2013.	

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		<p><i>Survey Protocol in 2011. No northern spotted owls were found on the project site in 2010 or 2011. Pursuant to the 2011 Northern Spotted Owl Survey Protocol, and consistent with the recommendations of the USFWS in this protocol, "Spot Check Surveys" shall be conducted in survey years 3 (2012) and 4 (2013) in order for the negative survey findings to remain valid in years 2012 and 2013. Survey results shall be submitted to CAL FIRE. Spot Check Surveys are defined in the USFWS' 2011 protocol as 3 nighttime surveys within a 0.25 mile radius of the project area. Negative survey findings from the 2010 and 2011 surveys that were conducted pursuant to the 2011 Northern Spotted Owl Survey Protocol, with spot check surveys in years 3 and 4 that are also negative, will validate negative survey findings through 2013. Should timber harvesting commence in 2014 or in later years, a second set of full protocol-level surveys will be conducted pursuant to the 2011 Northern Spotted Owl Survey Protocol or any revision to this protocol in place after 2013.</i></p>			
		<p>3.4-4(b) <i>Current survey information indicates that at this time there are no impacts that are expected to occur to the northern spotted owl: Regardless, as required to comply with the Forest Practices Act as detailed at 14 CCR § 919.9, the following</i></p>	CAL FIRE	Implement only if northern spotted owl are detected pursuant to MM 3.4-4(a).	

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		<p><i>habitat protection measures shall be established to protect the northern spotted owl if in subsequent years northern spotted owls establish an activity center closer than 0.7 mile of the project site.</i></p> <p>Habitat Protection Measures</p> <p><i>The following definitions shall be used when evaluating impacts to the northern spotted owl:</i></p> <p><i>1. Definitions of nesting-roosting and foraging habitat.</i></p> <p style="padding-left: 40px;"><i>a. Nesting-Roosting Habitat includes the following:</i></p> <p style="padding-left: 80px;"><i>A. ≥60% canopy cover of trees ≥11 inches diameter at breast height (dbh).</i></p> <p style="padding-left: 40px;"><i>b. Foraging Habitat includes the following:</i></p> <p style="padding-left: 80px;"><i>A. ≥40% canopy cover of trees 11 inches dbh.</i></p> <p style="padding-left: 80px;"><i>B. Basal area = ≥75 ft²/acre of trees ≥11 inches dbh.</i></p>			

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		<p>2. <i>Priority Ranking of Habitat Retention Areas.</i></p> <p>a. <i>Tree Species Composition. Mixed conifer stands should be selected over pine-dominated stands.</i></p> <p>A. <i>Abiotic Considerations include the following:</i></p> <p>i. <i>Distance to Nest.</i></p> <p>I. <i>Nesting-roosting and foraging habitat should be located closest to identified nest tree(s), or closest to roosting tree(s), if no nesting trees are identified.</i></p> <p>ii. <i>Contiguity.</i></p> <p>I. <i>Nesting-roosting habitat within the 0.5-radius circle around an activity center must be as contiguous as possible.</i></p> <p>II. <i>Fragmentation of foraging habitat must be minimized as much as possible.</i></p>			

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		<p style="text-align: center;"><i>iii. Slope Position.</i></p> <p style="text-align: center;"><i>I. Habitats located on the lower one-third of slopes provide optimal microclimatological conditions and an increased potential for the presence of intermittent or year-round water resources.</i></p> <p style="text-align: center;"><i>iv. Aspect.</i></p> <p style="text-align: center;"><i>I. Habitats located on northern aspects provide optimal vegetation composition and cooler site conditions.</i></p> <p style="text-align: center;"><i>v. Elevation.</i></p> <p style="text-align: center;"><i>I. Habitat should be located at elevations of less than 6000 feet, although the elevation of some activity centers (primarily east of Interstate 5) may necessitate inclusion of habitat at elevations greater than 6000 feet.</i></p>			

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		<p>3. <i>Habitat Quantities.</i></p> <p>a. <i>Within 1000 feet of each activity center:</i></p> <p>A. <i>Outside of the breeding season (August 1 through January 31), no timber operations shall occur within 1000 feet of an activity center other than use of existing roads.</i></p> <p>B. <i>During the breeding season (February 1 through July 30), no timber operations shall occur within 1000 feet of an activity center other than use of existing, permanent, year-round roads.</i></p> <p>b. <i>Within 0.7-mile radius (1000 acres) of, and centered on, each activity center:</i></p> <p>A. <i>Habitat shall be retained to maximize attributes desirable for NSOs described in (2) above.</i></p> <p>B. <i>At least 500 acres of suitable habitat must be present, as follows:</i></p> <p>i. <i>200 acres of nesting-roosting habitat.</i></p>			

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		<p><i>I. No timber harvest shall occur within the 100 acres of nesting-roosting habitat immediately surrounding each activity center.</i></p> <p><i>II. If the remaining 100 acres of nesting-roosting habitat is contiguous with the activity center or is located within the same drainage, harvest shall not reduce the pre-harvest basal area of these acres by more than 33%.</i></p> <p><i>III. If the remaining 100 acres of nesting-roosting habitat is not contiguous with the activity center or is not located within the same drainage, ≥60% canopy cover of trees ≥11 inches dbh shall be retained.</i></p> <p><i>ii. ≥300 acres of foraging habitat.</i></p> <p><i>C. No more than 1/3 of the remaining suitable habitat shall be harvested</i></p>			

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		<p style="text-align: center;"><i>during the life of the plan.</i></p> <p><i>c. Between the 0.7-mile and 1.3-mile radius circles centered on each activity center:</i></p> <p><i>A. Retention of habitat should follow the ranking guidelines contained in (2) above.</i></p> <p><i>B. ≥836 acres of suitable habitat must be present.</i></p> <p><i>C. No more than 1/3 of the remaining suitable habitat shall be harvested during the life of the plan.</i></p> <p><i>If there is a deficit of any habitat quantities pre harvest, operations within that habitat type shall not reduce or degrade the amount or quality of that habitat.</i></p> <p>Operational Protection Measures</p> <ul style="list-style-type: none"> • <i>Helicopter yarding within 0.5 miles of an NSO activity center is prohibited between February 1st and August 31st.</i> 			

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		<ul style="list-style-type: none"> • <i>No timber harvest operations shall occur until such time as CAL FIRE has reviewed all survey and habitat information required by 919.9(g) (provided in Section V of the THP) and has determined pursuant to 14 CCR 919.10 that take of an NSO will not occur. Any change in timber operations that results from a change in location, or the discovery, of an NSO after plan approval will have to be incorporated into the plan through the amendment process per 14 CCR §§ 1039, 1040, 1090.24, 1090.25 and 1092.27. CAL FIRE will treat such a change in timber operations as a minor or substantial amendment, depending on the extent of the change.</i> <p><i>If in subsequent years surveys are again completed and northern spotted owls are found nesting in the trees on or immediately adjacent to the project site, or subsequent credible information becomes available that demonstrates that the northern spotted owl could be affected by the proposed project pursuant to the Forest Practices Act, the mitigation measures above shall be implemented. In addition, the applicant will consult with USFWS and any additional restrictions or mitigation measures imposed</i></p>			

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		<i>by this agency will become conditions of project approval.</i>			
3.4-5	Impacts to nesting raptors.	<p>3.4-5 <i>Raptor nesting surveys shall be conducted no earlier than 30 days prior to commencing with any tree/brush removal or any earth-moving activity if this work would commence between February 1st and September 1st. The raptor nesting surveys shall include examination of all trees on the project site and, if possible owing to land access issues, within 1,000 feet of the entire project site. All stick nests and all tree cavities shall be examined for evidence of nesting raptors. Raptor nesting survey results shall be submitted to CAL FIRE.</i></p> <p><i>If an active raptor nesting site is identified, then non-disturbance buffers will be established per CDFG recommendations. That is, nest buffers will be a minimum of 500 feet for Accipiters and 1,000 feet for Buteos. These nest buffers will be maintained until the nest site(s) are vacated by the nesting raptors, typically after young fledge and disperse. Any modification in the size of nest buffers will be discussed with CDFG prior to harvesting timber or clearing vegetation any closer than 1,000 feet from identified active nests.</i></p>	CAL FIRE CDFG	Surveys shall be conducted no earlier than 30 days prior to commencing with any tree/brush removal or earth-moving activity if this work would commence between February 1 – September 1.	
3.4-6	Impacts to nesting birds (general).	3.4-6 <i>The Migratory Bird Treaty Act and California Fish and Game Code Sections 3503, 3513, and</i>	CAL FIRE	If harvesting / conversion / land	

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		<p><i>3800 prohibit the direct take of birds and their eggs and/or young. While birds in general can fly out of harm's way, bird's nests are vulnerable to destruction and disturbance that causes nest abandonment and concomitant loss of eggs and/or young. The project shall not impact nesting birds. Accordingly, if harvesting/conversion/land clearing and/or grading would occur between February 1st and September 1st, qualified biologists shall be required to conduct systematic, intensive preconstruction nesting bird surveys to ensure that there is no direct take of nesting birds, their eggs or young. Surveys should be in focused areas that consist of 100' x 100' plots of land and shall commence no sooner than two weeks in advance of timber harvesting/land conversion. Survey results shall be submitted to CAL FIRE.</i></p> <p><i>The buffer of any nest identified would have to be demarcated with a double stand of bright orange flagging tape tied 5 to 8 feet above the ground, and would have to be of sufficient size to protect the nest until such time that young fledge and reach independence of the nest. The size of the nesting buffer would need to be determined in the field by a qualified ornithologist, but should be, at a minimum, no less than 50 feet in diameter measured from the drip line of the nesting</i></p>	CDFG	clearing and/or grading would occur between February 1 st and September 1 st , qualified biologists shall be required to conduct systematic, intensive preconstruction nesting bird surveys to ensure that there is no direct take of nesting birds, their eggs or young. Surveys should be in focused areas that consist of 100' x 100' plots of land and shall commence no sooner than two weeks in advance of timber harvesting/land	

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		<i>tree/bush. While labor intensive, such nesting bird surveys would best protect nesting birds and would otherwise ensure the project remains in compliance with the Migratory Bird Treaty Act and Fish and Game Codes that protect nesting birds.</i>		conversion.	
3.4-7	Impacts to nesting yellow warblers.	<p>3.4-7 <i>To ensure that no construction-related impacts occur to nesting yellow warblers on the project site, preconstruction surveys for yellow warblers should be conducted no more than two weeks (14 days) prior to ground disturbance and/or clearing of brush and/or timber. Survey results shall be submitted to CAL FIRE. If nesting yellow warblers are identified nesting on or adjacent to the project site, a suitable temporary buffer area should be fenced around the nest tree. The size of the nesting buffer would need to be determined in the field by a qualified ornithologist, but should be, at a minimum, no less than 100 feet between the nest site and the construction area.</i></p> <p><i>The dripline of the nest tree should be fenced with orange construction fencing (provided the tree is on the project site), and a 100-foot radius around the nest tree should be demarcated with a double stand of bright orange flagging tape tied 5 to 8 feet above the ground. If the tree is adjacent to the project site then the buffer shall be demarcated per above where the buffer occurs</i></p>	CAL FIRE CDFG	Pre-construction surveys shall be conducted no more than two weeks prior to ground disturbance and / or clearing of brush and/or timber.	

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		<i>on the project site. The size of the buffer may be altered if a qualified ornithologist conducts behavioral observations and determines the warblers are well acclimated to disturbance. If this occurs, the ornithologist shall prescribe a modified buffer that allows sufficient room to prevent undue disturbance/harassment to the nesting birds. No disturbances shall be allowed within the established buffer until it is determined by a qualified ornithologist that the young have fledged (that is, left the nest) and have attained sufficient flight skills to avoid project construction zones. This typically occurs by August 1. This date may be earlier than August 1, or later, and would have to be determined by a qualified ornithologist.</i>			
3.4-9	Impacts to the foothill yellow-legged frog.	<i>3.4-9 In order to avoid impacting Patchett Creek and the foothill yellow-legged frogs that reside in this creek, a minimum 100-foot protective buffer will be established prior to timber harvest operations between Patchett Creek top-of-banks and any timber harvest operations, and subsequently, project site development (Figure 3.4-4). This buffer will ensure that the existing shade and sunlight regimes present today in Patchett Creek are maintained except as modified by natural succession. In addition, a project site preconstruction SWPPP will be implemented prior to initiation of timber harvest activities to</i>	CAL FIRE RWQCB	Prior to initiation of timber harvest operations, a minimum 100-foot protective buffer shall be established between Patchett Creek top-of-banks and timber harvest operations, and subsequently,	

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		<p><i>ensure that Patchett Creek, and indeed most tributaries on the project site (with rare exception), are protected from siltation and/or other project-related downstream impacts. Similarly, a post-project BMPs plan will also be implemented to ensure that there are no impacts to the water quality in Patchett Creek or other downstream receiving waters after implementation of the project. In addition, there is no significant potential for contamination of Patchett Creek by the use of fertilizer, herbicide, insecticide, or other agricultural chemicals in the proposed vineyard. Qualified, properly certified vineyard managers will use only State-approved fertilizers, herbicides, insecticides or other agricultural chemicals in accordance with the label instructions and any applicable usage guidelines in the event that any of these are determined necessary. Implementation of the SWPPP and the post project BMPs plan, and the establishment of protective buffers along Patchett Creek will ensure that impacts to the foothill yellow-legged frog are avoided. These measures are refined in Mitigation Measure(s) 3.7-2(a-h), 3.7-3(a and b) and 3.7-4.</i></p>		<p>project site development.</p> <p>Preconstruction Stormwater Pollution Prevention Plan (SWPPP) and post-project Best Management Practices (BMP) Plan shall be implemented prior to initiation of timber harvest activities.</p>	
3.4-10	Impacts to the red-legged frog (Northern and California red-legged frog).	<p><i>3.4-10(a) A qualified 10(a)(1)(A) biologist authorized to work with the California red-legged frog shall conduct protocol-level surveys for California red-legged frog prior to initiation of timber</i></p>	<p>CAL FIRE USFWS</p>	<p>Prior to initiation of timber harvest operations, eight surveys shall be</p>	

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		<p><i>harvest operations based on the field methods presented in the U.S. Fish and Wildlife Service's (USFWS) Revised Guidance on site assessment and field surveys for California red-legged frogs (dated August 2005). The USFWS Guidance recommends a total of eight (8) surveys to determine the presence of California red-legged frog at or near a project site. Two (2) day surveys and four (4) night surveys are recommended during the breeding season (January 1 to June 30); one (1) day and one (1) night survey are recommended during the non-breeding season (July 1 and September 30). Each survey must take place at least seven (7) days apart, although you can pair a diurnal and a nocturnal survey during a 24 hour period. At least one diurnal and one nocturnal survey must be conducted after July 1st and before August 15th. The survey period must be over a minimum period of 6 weeks (i.e., the time between the first and last survey must be at least 6 weeks). The survey results shall be submitted to CAL FIRE. If no California red-legged frogs are found within the project area during these surveys, no further regard for the California red-legged frog would be necessary. No additional mitigation measures would be required and impacts would be regarded as less than significant pursuant to the CEQA. If red-legged frogs are identified at any time during the</i></p>		<p>conducted -- 2 day surveys and 4 night surveys during the breeding season (January 1 to June 30); and 1 day and 1 night survey during the non-breeding season (July 1 to September 30).</p>	

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		<p><i>course of surveys, no additional surveys will be conducted in the area, unless the surveying effort is part of a Service-approved project to determine the distribution of frogs at a site.</i></p>			
		<p>3.4-10(b) <i>Permission will be obtained from the USFWS for genetic testing to determine what species of red-legged frog occurs on the project site. If the species is the northern red-legged frog, mitigation compensation shall consist of dedicating Patchett Creek in a permanently preserved corridor and compensating for impacts to waters of the U.S. at a 2:1 ratio (replacement to impacts) consistent with other mitigation measures detailed herein that project wetlands and creek corridors.</i></p>	USFWS	<p>If red-legged frog are found on-site, genetic testing shall be conducted.</p>	
		<p>3.4-10(c) <i>If genetic testing confirms the presence of the California red-legged frog the following additional mitigation measures shall be required. An incidental take permit shall be acquired from USFWS for the proposed project prior to implementing the project. In addition, the applicant shall purchase mitigation credits at a USFWS-approved mitigation bank with a Service Area that covers the project site or as otherwise approved by the USFWS. Mitigation credits that are purchased shall be based upon a minimum of a 1:1 compensation to impacts ratio for impacts</i></p>	USFWS	<p>If genetic testing confirms the presence of California red-legged frog, an incidental take permit shall be acquired from USFWS prior to implementing the project.</p>	

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		<p><i>to 191.6 acres of upland dispersal habitat. The total credits purchased by the applicant shall ultimately be consistent with USFWS requirements for this project.</i></p> <p>3.4-10(d) <i>In lieu of purchase of mitigation credits from an approved CRLF mitigation bank, the applicant may secure and preserve in perpetuity habitat that is known to support the CRLF.</i></p>	USFWS	If genetic testing confirms presence of California red-legged frog, the applicant may implement this mitigation measure in lieu of purchasing mitigation credits as set forth in MM 3.4-10(c).	
3.4-11	Sedimentation impacts to special-status salmonids.	3.4-11 <i>Implement Mitigation Measure 3.7-3.</i>	CAL FIRE Sonoma County Permit and Resource Management Department (PRMD)	Prior to issuance of grading permits.	
3.4-15	Impacts to waters of the United States and State.	3.4-15(a) <i>Prior to initiation of timber harvest operations, the project applicant shall obtain a 404 permit (CWA) from the Corps. Upon acquiring a 404</i>	CAL FIRE United States	Prior to initiation of timber harvest operations.	

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		<p><i>permit, the applicant must also obtain a water quality certification from RWQCB under Section 401 of the CWA, an NOI from the SWRCB and a Streambed Alteration Agreement from CDFG.</i></p> <p>3.4-15(b) <i>Simultaneous with any impacts to waters of the U.S. and/or State (“wetlands”), the project applicant shall compensate for the loss of wetland habitat to ensure no net loss of habitat functions and values. To mitigate for the direct loss of 0.414 acres of jurisdictional wetlands, the applicant shall create/restore wetlands at a ratio of 2:1 (2 acres created/restored for every acre lost) on the project site. Created features shall generally be in-kind for seasonal wetlands lost.</i></p> <p><i>A detailed wetland mitigation plan shall be required that includes a five-year monitoring program and reporting requirements, responsibilities, performance success criteria, and contingency requirements. At the end of each monitoring year, an annual report shall be submitted to the Corps, RWQCB, Sonoma County, and CAL FIRE. The report shall document the hydrological and vegetative conditions of the mitigation wetlands, and shall recommend remedial measures as necessary to correct deficiencies. Mitigation lands would be subject to a deed restriction and an agency</i></p>	<p>Army Corps of Engineers (ACOE)</p> <p>Regional Water Quality Control Board (RWQCB)</p> <p>CDFG</p> <p>State Water Resources Control Board (SWRCB)</p> <p>Sonoma County PRMD</p>	<p>Simultaneous with any impacts to waters of the U.S. and/or State, the applicant shall create/restore wetlands a ratio prescribed in this MM.</p> <p>A five-year wetland monitoring program and reporting plan shall be required.</p>	

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		<p><i>approved long-term management plan.</i></p> <p><i>The deed restriction would ensure that the wetlands are protected in perpetuity. The wetland mitigation plan would require approval by the Corps and the RWQCB.</i></p> <p>3.4-15(c) <i>In lieu of creating compensation wetlands, as approved by the Corps and RWQCB, the applicant may purchase mitigation credits from an approved mitigation bank at a 2:1 ratio or as otherwise specified by the Corps and RWQCB.</i></p>		In lieu of creating compensation wetlands per MM 3.4-15(b), the applicant may purchase mitigation credits at a 2:1 ratio.	
3.4-16	Impacts to streamside conservation areas.	<p>3.4-16 <i>A habitat management plan shall be prepared and implemented for all streamside conservation areas and designated preserves prior to initiation of timber harvest operations. Maintenance as required to restore drainages would be one of the only allowable uses. The following uses and practices, at a minimum, may be permitted in the streamside conservation areas:</i></p> <ul style="list-style-type: none"> • <i>Access to the streamside conservation areas shall be limited to occasional activities for management, restoration and maintenance of the site's natural vegetation and</i> 	CAL FIRE CDFG	A habitat management plan shall be implemented prior to initiation of timber harvest operations.	

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		<p><i>drainageways; or for scientific study purposes.</i></p> <ul style="list-style-type: none"> • <i>State and federal resource agencies shall have access with adequate (24 hours) notice to the applicant for the purpose of inspecting the site's natural resources and monitoring the status and effectiveness of management practices.</i> • <i>Any existing pipelines and easements may continue to be maintained.</i> • <i>Existing roads, structures, fences, ditches, pumps, and other improvements may be maintained and repaired.</i> • <i>The streamside conservation areas shall be used for the conservation of wildlife or plant habitat including the development or maintenance of wetland areas.</i> <p><i>The following activities and uses shall be prohibited in the streamside conservation areas:</i></p> <ul style="list-style-type: none"> • <i>The legal or de facto subdivision or use of the streamside conservation areas including, but not limited to, any such subdivisions or establishment of separate legal parcels by (i) certificates of compliance or (ii) lot line adjustments.</i> • <i>The construction of deer fencing or other</i> 			

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		<p><i>exclusionary fencing. Such fencing shall be allowed at the edge of vineyards constructed parallel and on the outside edge of the buffers.</i></p> <ul style="list-style-type: none"> • <i>The placement or construction of any buildings, structures, or other improvements of any kind, (including, without limitation, pipelines, fences, roads, parking lots, mobile homes, wind turbines, antennas, maintenance or other buildings).</i> • <i>Any agricultural, commercial, residential or industrial use or activity;</i> • <i>Any recreational use or activity.</i> • <i>Any use of chemicals including insecticides, rodenticides, and fertilizers. The applicant may, with approval from the Department of Fish and Game, use herbicides to control noxious weeds to benefit native California flora/fauna.</i> • <i>The installation of new, or the extension of existing utilities including, without limitation, water, sewer, power, fuel, and communication lines and related facilities.</i> • <i>The operation of any motorized vehicle for any purpose, except for emergency use, fire control, or for maintenance, repair and restoration of the streamside conservation areas.</i> 			

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		<ul style="list-style-type: none"> • <i>The pruning, felling, or other destruction or removal of dead or living native trees and shrubs or other native vegetation, except as necessary to control or prevent hazards, disease, or fire.</i> • <i>Any alteration of the surface of the land, including, without limitation, the excavation or removal of soil, sand, gravel, rock, peat, or sod.</i> • <i>Mining, drilling, exploration for, or extraction of minerals, hydrocarbons, steam, soils, or other materials on or below the surface.</i> • <i>Any use or activity that causes or is likely to cause soil degradation or erosion, or pollution of any surface or subsurface water.</i> • <i>The storage of any materials, vehicles, and/or supplies.</i> • <i>The dumping or other disposal of wastes, refuse, and/or debris.</i> <p><i>These or similar measures, when implemented, would reduce project impacts to streamside conservation areas to a level considered less than significant.</i></p>			
3.5 Cultural Resources					
3.5-1	Impacts to paleontological	3.5-1 <i>The applicant shall arrange for a qualified</i>	CAL FIRE	Two to three full	

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	resources.	<p><i>paleontologist to be on-site for two to three full days during the initiation of earthmoving activities on the project site. Following the two to three days of paleontological monitoring, the paleontologist shall meet with the earthmoving equipment operators and the project archaeologist, in order to train them in the identification of fossils potentially existing on the site.</i></p> <p><i>In the event that any paleontological resources are discovered during vineyard development activities, the qualified paleontologist shall be immediately notified by the foreman supervising the excavation activities. The applicant shall provide the foreman with the paleontological contact information prior to initiation of construction activities. If loose, the fossils shall be set aside in a safe location for evaluation of significance by the paleontologist. If discovered within immovable bedrock, all work shall be halted in the vicinity of the find to the extent feasible, and the paleontologist shall be consulted in order to determine whether the find is an isolated example or part of a more complex resource. Upon determining the significance of the resource, the consulting paleontologist, in coordination with the Director of the County Permit and Resource Management Department,</i></p>		days during the initiation of earthmoving activities on the project site a paleontological monitor shall be present.	

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		<i>shall determine the appropriate actions to be taken. The appropriate measures may include as little as recording the resource with a recognized paleontological authority such as the University of California, Berkeley, Museum of Paleontology (UCMP), or as much as excavation, recording, and preservation of the resources that have outstanding paleontological significance. A note requiring compliance with this measure shall be indicated on construction drawings and in construction contracts for the review and approval of the County Permit & Resource Management Department prior to issuance of grading permits.</i>			
3.5-2	Impacts to prehistoric cultural resources.	<p>3.5-2(a) <i>Prior to beginning any timber and/or ground disturbing operations within 100 feet of any of the significant archaeological sites identified within and adjacent to the project area, the location of the fences to be constructed around them shall be determined through on-site consultation among the CAL FIRE Archaeologist, the project Registered Professional Forester (RPF), the project proponent's archaeological consultant and the Stewarts Point Rancheria THPO or his designee.</i></p> <p style="padding-left: 40px;"><i>1. There is a possibility that prehistoric or historical cultural materials may be uncovered during operations. Should this</i></p>	<p>CAL FIRE</p> <p>Stewarts Point Rancheria Tribal Historic Preservation Officer (THPO)</p>	<p>Prior to beginning any timber and/or ground disturbing operations within 100 feet of any of the significant archaeological sites identified within and adjacent to the project area, the location of the fences to be constructed</p>	

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		<p><i>occur, operations within 100 feet of the discovery shall stop, the CAL FIRE archaeologist notified, and the other provisions of 14 CCR 929.3 implemented.</i></p> <ol style="list-style-type: none"> <i>2. No collection of artifacts or cultural materials by project personnel is allowed.</i> <i>3. The RPF of record shall communicate the above recommendations to the Licensed Timber Operator (LTO) prior to the start of operations.</i> <p><i>In keeping with applicable CEQA and Section 106 regulations, if archaeological site indicators are encountered during project implementation, work at the place of discovery shall be halted immediately until a qualified archaeologist can evaluate the finds (14 CCR §15064.5 [f] and 36CFR60.4). Prehistoric archaeological site indicators include but are not limited to: obsidian and chert flakes and chipped stone tools; grinding and mashing implements (e.g., slabs and handstones, and mortars and pestles); bedrock outcrops and boulders with mortar cups; and locally darkened midden soils. Midden soils may contain a combination of any of the previously listed items with the possible addition of bone and shell remains, and fire affected stones. Historic period archaeological site indicators</i></p>		around them shall be determined.	

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		<p><i>generally include, but are not necessarily limited to: fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations and discrete trash deposits (e.g., wells, privy pits, dumps). When historic period archaeological site indicators are encountered ground disturbing activities within 100 feet of the discovery location shall be halted immediately until a qualified archaeologist can evaluate the find(s) (14 CCR §15064.5 [ff]).</i></p> <p>3.5-2(b) <i>In the event that human remains are found during vineyard development activities, the steps required by 14 CCR Section 15064.5(e) of the CEQA Guidelines shall be carried out. All excavation or disturbance of the location and any nearby area reasonably suspected to overlie adjacent human remains shall cease. The Sonoma County Coroner shall be immediately contacted. If the coroner determines the remains to be Native American applicable law and regulation require the coroner to contact the Native American Heritage Commission within 24 hours. Subsequently the Native American Heritage Commission is mandated to identify the person or persons it believes to be the most likely descended from the deceased Native American. The most likely descendant may then make</i></p>	<p>Sonoma County Coroner</p> <p>Native American Heritage Commission (NAHC), if remains are Native American.</p>	<p>In the event that human remains are found during vineyard development activities.</p>	

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		<p><i>recommendations to the landowner or the person responsible for the excavation work, regarding the treatment of, with appropriate dignity, the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98. A note requiring compliance with this measure shall be indicated on construction drawings and in construction contracts for the review and approval of the County Permit & Resource Management Department prior to issuance of grading permits.</i></p> <p>3.5-2(c) A. Pursuant to 14 CCR § 15126.4(b)(3)(C), if/when the CAL FIRE Archaeologist, the consulting archaeologist, and the Stewarts Point Rancheria THPO (or his designee) agree that data recovery through excavation is the only feasible mitigation for an archaeological site(s) discovered during project implementation, a data recovery plan (DRP) that makes provision for adequately recovering the scientifically important information from and about the site shall be prepared and adopted prior to any excavation being undertaken. The DRP shall, at a minimum, include:</p> <p style="padding-left: 40px;">1. A thorough description and current assessment of the condition of each</p>	<p>CAL FIRE</p> <p>Stewarts Point Rancheria THPO</p>	<p>If/when the CAL FIRE Archaeologist, the consulting archaeologist, and the Stewarts Point Rancheria THPO (or his designee) agree that data recovery through excavation is the only feasible mitigation for an archaeological site(s) discovered during project</p>	

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		<p style="text-align: center;"><i>site where data recovery is proposed.</i></p> <p>2. <i>A description of the project with the areas of direct impact identified and the relationship of these areas of direct impact to the known archaeological site(s) clearly stated.</i></p> <p>3. <i>A summary of the California Forest Practice Rules and California Environmental Quality Act (CEQA) compliance situation and the management goals of the study, including, but not limited to, defining the areal extent of the site(s), describing the depth, range and characteristics of cultural material and natural strata present, and listing all cultural deposits sampled and/or excavated to date, to determine whether the cultural deposits possess the integrity and potential data to address questions important in prehistory or history, and to provide information necessary to establish what effect project implementation may have on these sites.</i></p> <p>4. <i>Identification and description of the portion of each site where data recovery is to be undertaken.</i></p> <p>5. <i>Identification and description of the</i></p>		<p>implementation, a data recovery plan (DRP) that makes provision for adequately recovering the scientifically important information from and about the site shall be prepared and adopted prior to any excavation being undertaken.</p>	

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		<p style="text-align: center;"><i>portion of each site that will be destroyed without data recovery.</i></p> <p>6. <i>Pertinent background information on the environment, paleoenvironment, ethnography, archaeology and history, as appropriate, to demonstrate familiarity with the project area and type(s) of site(s) under study, and to provide a context for the discussion of relevant regional research topics.</i></p> <p>7. <i>The research questions/research topics relevant to the sites with an explanation of their importance to regional prehistory and/or history.</i></p> <p>8. <i>The expected data categories, how they relate to each topic and the sample size necessary to provide adequate cultural material for analysis.</i></p> <p>9. <i>Field and analysis methods to be used, with an explanation of their relevance to the research domains.</i></p> <p>10. <i>Methods for evaluating and treating newly identified values. [Note: because situations may arise or data be encountered which were not anticipated in the research design, adequate provision shall be made therein for modification of the</i></p>			

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		<p><i>program to address unforeseen discoveries and/or other unexpected circumstances.]</i></p> <p>11. <i>Archaeological sites found to contain human remains shall be treated in accordance with applicable provisions of Section 7050.5 of the California Health and Safety Code and through consultation with the Stewarts Point Rancheria THPO (see also Mitigation Measure 3.5-2(b)).</i></p> <p>12. <i>Proposed disposition of recovered materials and records. Acceptable curation arrangements may include, but not necessarily be limited to:</i></p> <p style="margin-left: 40px;"><i>a. Return to the landowner in accordance with State private property rights if that is the landowner's expressed desire, AFTER description, study, and analysis in accordance with the DRP/research design are complete;</i></p> <p style="margin-left: 40px;"><i>b. Curation at a regional research center or appropriate public or private repository meeting the standards set forth in Guidelines for the Curation of Archeological</i></p>			

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		<p><i>Collections (State Historical Resources Commission 1993), provided reasonable access is guaranteed for future study]— following consultation about curation with the Stewarts Point Rancheria THPO.</i></p> <p><i>13. Consideration of non-archaeological concerns (e.g., cultural concerns expressed by the Stewarts Point Rancheria THPO, the interests of the private property owner in maintaining the integrity of their property rights, any paleontological, geological, or related values that may be present in the site deposit(s); and/or the environmental integrity of the sites).</i></p> <p><i>B. Before data recovery operations (and/or any subsurface archaeological treatment measures) are carried out, submit a draft of the DRP to the CAL FIRE Northern Region-Coast Area Archaeologist and the Stewarts Point Rancheria THPO and provide them a reasonable opportunity to review and comment. The DRP shall then be revised accordingly and a copy of the final DRP provided to the CAL FIRE Archaeologist and</i></p>			

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		<p><i>the Stewarts Point Rancheria THPO.</i></p> <p><i>C. The CAL FIRE Archaeologist shall be notified a minimum of five (5) business days prior to beginning work under the terms of the approved DRP.</i></p> <p><i>D. Once the DRP has been implemented, a final, confidential written archaeological report shall be prepared that contains, at a minimum, the reasons for the project, the data recovery plan, the methods employed in both field work and analysis, the data recovered, observations made, insights gained, conclusions reached, and a presentation of pertinent data. This report shall take into account the applicable recommendations set forth in Preservation Planning Bulletin No. 4(a), Archaeological Resource Management Reports (ARMR): Recommended Contents and Format (Office of Historic Preservation, 1989). A draft of this report shall be submitted to the CAL FIRE Archaeologist and the Stewarts Point Rancheria THPO who shall be provided a reasonable opportunity to review and comment upon the draft report. Following this review, the final report shall be revised accordingly and two (2) copies provided to</i></p>			

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		<p><i>the CAL FIRE Archaeologist. In addition, copies shall be provided to the Stewarts Point Rancheria THPO and the Native American Heritage Commission if either party so requests.</i></p> <p>3.5-2(d) <u>Artesa Site-01</u></p> <p>1. <i>No project or ground disturbing activities or impacts of any kind shall take place within the site boundaries. The site shall be clearly marked with highly visible fencing by the consulting archaeologist and/or his qualified designee(s) - in consultation with the Stewarts Point Rancheria THPO or his designee - prior to and during all ground disturbing timber harvesting and vineyard development activities. This fencing shall be maintained as necessary throughout ground disturbing activities within 100 feet of the site boundary. This location shall be clearly plotted on the project maps with specific and clear notations that this area is NOT to be encroached upon. In so doing, however, this location shall NOT be specifically labeled or identified as an archaeological site on the project maps in order to keep the identity and location of the site confidential and thus protect the site from damage by</i></p>	<p>CAL FIRE</p> <p>Stewarts Point Rancheria THPO</p>	<p>During construction and operation -- no project or ground disturbing activities or impacts of any kind shall take place within the boundaries of Artesa Site-01.</p>	

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		<p><i>artifact hunters or vandals.</i></p> <p>2. <i>Although re-use of the existing seasonal road located approximately 150-200 feet to the northwest of the site is permitted, such use is restricted to ingress and egress – there shall be no mechanical grading or widening of the road.</i></p> <p>3. <i>A minimum 4-inch thick layer of gravel or other similar, suitable road rock material shall be placed (and maintained at that thickness throughout operations) on the 500-foot long segment of existing dirt road near Artesa Site-01.</i></p> <p>4. <i>Ground disturbing activities taking place within 100 feet of the site shall be monitored by a professional consulting archaeologist and the Stewarts Point Rancheria THPO or his designee(s). Prior to beginning operations, the scope of the monitoring shall be determined in consultation with the CAL FIRE Archaeologist and the Stewarts Point Rancheria THPO or his designee. When artifacts and/or other site indicators are encountered during operations, ground disturbing activities within 100 feet of the</i></p>			

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		<p><i>find shall be halted, and the provisions of 14 CCR 929.3 implemented (which include promptly notifying the CAL FIRE Archaeologist about the find).</i></p> <p><u>Artesa Site-02:</u></p> <p>1. <i>No project or ground disturbing activities or impacts of any kind shall take place within the site boundaries. The site shall be clearly marked by the consulting archaeologist and/or his qualified designee - in consultation with the Stewarts Point Rancheria THPO or his designee – with highly visible fencing prior to and during all ground disturbing timber harvesting and vineyard development activities. This fencing shall be maintained as necessary throughout ground disturbing activities within 100 feet of the site boundary. This location shall be clearly plotted on the project maps with specific and clear notations that this area is NOT to be encroached upon. In so doing, however, this location shall NOT be specifically labeled or identified as an archaeological site on the project maps in order to keep the identity and location of the site confidential</i></p>	<p>CAL FIRE Stewarts Point Rancheria THPO</p>	<p>During construction and operation -- no project or ground disturbing activities or impacts of any kind shall take place within the boundaries of Artesa Site-02.</p>	

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		<p><i>and thus protect the site from damage by artifact hunters or vandals.</i></p> <p>2. <i>Ground disturbing activities taking place within 100 feet of the site shall be monitored by a professional consulting archaeologist and the Stewarts Point Rancheria THPO or his designee(s). Prior to beginning operations, the scope of the monitoring shall be determined in consultation with the CAL FIRE Archaeologist and the Stewarts Point Rancheria THPO. When artifacts and/or other site indicators are encountered during operations, ground disturbing activities within 100 feet of the find shall be halted, and the provisions of 14 CCR 929.3 implemented (which include promptly notifying the CAL FIRE Archaeologist about the find).</i></p> <p><u>Artesa Site-04:</u></p> <p>1. <i>No project or ground disturbing activities or impacts of any kind shall take place within the site boundaries. The site shall be clearly marked by the consulting archaeologist and/or his qualified designee - in consultation with the Stewarts Point</i></p>	<p>CAL FIRE</p> <p>Stewarts Point Rancheria THPO</p>	<p>During construction and operation -- no project or ground disturbing activities or impacts of any kind shall take</p>	

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		<p><i>Rancheria THPO or his designee – with highly visible fencing prior to and during all ground disturbing timber harvesting and vineyard development. This fencing shall be maintained as necessary throughout ground disturbing activities within 100 feet of the site boundary. This location shall be clearly plotted on the project maps with specific and clear notations that this area is NOT to be encroached upon. In so doing, however, this location shall NOT be specifically labeled or identified as an archaeological site on the project maps in order to keep the identity and location of the site confidential and thus protect the site from damage by artifact hunters or vandals.</i></p> <p>2. <i>Ground disturbing activities taking place within 100 feet of the site shall be monitored by a professional consulting archaeologist and the Stewarts Point Rancheria THPO or his designee(s). Prior to beginning operations, the scope of the monitoring shall be determined in consultation with the CAL FIRE Archaeologist and the Stewarts Point Rancheria THPO. When artifacts and/or other site indicators are encountered during operations, ground disturbing activities</i></p>		place within the boundaries of Artesa Site-04.	

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		<p><i>within 100 feet of the find shall be halted, and the provisions of 14 CCR 929.3 shall be implemented (which include promptly notifying the CAL FIRE Archaeologist about the find).</i></p> <p><u>Artesa Site-05:</u></p> <p>1. <i>No project or ground disturbing activities or impacts of any kind shall take place within the site boundaries. The site shall be clearly marked by the consulting archaeologist and/or his qualified designee - in consultation with the Stewarts Point Rancheria THPO or his designee – with highly visible fencing prior to and during all ground disturbing timber harvesting and vineyard development activities. This fencing shall be maintained as necessary throughout ground disturbing activities within 100 feet of the site boundary. This location shall be clearly plotted on the project maps with specific and clear notations that this area is NOT to be encroached upon. In so doing, however, this location shall NOT be specifically labeled or identified as an archaeological site on the project maps in order to keep the</i></p>	<p>CAL FIRE Stewarts Point Rancheria THPO</p>	<p>During construction and operation -- no project or ground disturbing activities or impacts of any kind shall take place within the boundaries of Artesa Site-05.</p>	

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		<p><i>identity and location of the site confidential and thus protect the site from damage by artifact hunters or vandals.</i></p> <p>2. <i>Ground disturbing activities taking place within 100 feet of the site shall be monitored by a professional consulting archaeologist and the Stewarts Point Rancheria THPO or his designee(s). Prior to beginning operations, the scope of the monitoring shall be determined in consultation with the CAL FIRE Archaeologist and the Stewarts Point Rancheria THPO. When artifacts and/or other site indicators are encountered during operations, ground disturbing activities within 100 feet of the find shall be halted, and the provisions of 14 CCR 929.3 shall be implemented (which include promptly notifying the CAL FIRE Archaeologist about the find).</i></p> <p>3.5-2(e) <u>Artesa Parking Site:</u></p> <p>1 <i>No project or ground disturbing activities or impacts of any kind shall take place within the site boundaries. The site shall be clearly marked by the consulting archaeologist and/or his qualified designee - in</i></p>	<p>CAL FIRE</p> <p>Stewarts Point Rancheria THPO</p>	<p>During construction and operation -- no project or ground disturbing activities or impacts of any</p>	

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		<p><i>consultation with the Stewarts Point Rancheria THPO or his designee – with highly visible fencing prior to and during all ground disturbing timber harvesting and vineyard development. This fencing shall be maintained as necessary throughout ground disturbing activities within 100 feet of the site boundary. This location shall be clearly plotted on the project maps with specific and clear notations that this area is NOT to be encroached upon. In so doing, however, this location shall NOT be specifically labeled or identified as an archaeological site on the project maps in order to keep the identity and location of the site confidential and thus protect the site from damage by artifact hunters or vandals.</i></p> <p>2 <i>Ground disturbing activities taking place within 100 feet of the site shall be monitored by a professional consulting archaeologist and the Stewarts Point Rancheria THPO or his designee(s). Prior to beginning operations, the scope of the monitoring shall be determined in consultation with the CAL FIRE Archaeologist and the Stewarts Point Rancheria THPO. When artifacts and/or other site indicators are encountered during</i></p>		kind shall take place within the boundaries of the Artesa Parking Site.	

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		<p><i>operations, ground disturbing activities within 100 feet of the find shall be halted, and the provisions of 14 CCR 929.3 implemented (which include promptly notifying the CAL FIRE Archaeologist about the find).</i></p> <p><u><i>Baling Wire Site:</i></u></p> <p><i>1. No project or ground disturbing activities or impacts of any kind shall take place within the site boundaries. Site boundaries shall be clearly marked by the consulting archaeologist and/or his qualified designee - in consultation with the Stewarts Point Rancheria THPO or his designee – with highly visible fencing prior to and during all ground disturbing timber harvesting and vineyard development activities. This fencing shall be maintained as necessary throughout ground disturbing activities within 100 feet of the site boundary. This location shall be clearly plotted on the project maps with specific and clear notations that this area is NOT to be encroached upon. In so doing, however, this location shall NOT be specifically labeled or identified as an archaeological site on the project maps in</i></p>	<p>CAL FIRE</p> <p>Stewarts Point Rancheria THPO</p>	<p>During construction and operation -- no project or ground disturbing activities or impacts of any kind shall take place within the boundaries of the Bailing Wire Site.</p>	

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		<p><i>order to keep the identity and location of the site confidential and thus protect the site from damage by artifact hunters or vandals.</i></p> <p>2. <i>Ground disturbing activities taking place within 100 feet of the site shall be monitored by a professional consulting archaeologist and the Stewarts Point Rancheria THPO or his designee(s). Prior to beginning operations, the scope of the monitoring shall be determined in consultation with the CAL FIRE Archaeologist and the Stewarts Point Rancheria THPO. When artifacts and/or other site indicators are encountered during operations, ground disturbing activities within 100 feet of the find shall be halted, and the provisions of 14 CCR 929.3 implemented (which include promptly notifying the CAL FIRE Archaeologist about the find).</i></p> <p><u>Artesa Crossing Site:</u></p> <p>1. <i>No project or ground disturbing activities or impacts of any kind shall take place within the site boundaries. Site boundaries shall be clearly marked by the consulting archaeologist and/or his qualified designee -</i></p>	<p>CAL FIRE Stewarts Point Rancheria THPO</p>	<p>During construction and operation -- no project or ground disturbing activities or impacts of any</p>	

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		<p><i>in consultation with the Stewarts Point Rancheria THPO or his designee – with highly visible fencing prior to and during all ground disturbing timber harvesting and vineyard development activities. This fencing shall be maintained as necessary throughout ground disturbing activities within 100 feet of the site boundary. This location shall be clearly plotted on the project maps with specific and clear notations that this area is NOT to be encroached upon. In so doing, however, this location shall NOT be specifically labeled or identified as an archaeological site on the project maps in order to keep the identity and location of the site confidential and thus protect the site from damage by artifact hunters or vandals.</i></p> <p>2. <i>Ground disturbing activities taking place within 100 feet of the site shall be monitored by a professional consulting archaeologist and the Stewarts Point Rancheria THPO or his designee(s). Prior to beginning operations, the scope of the monitoring shall be determined in consultation with the CAL FIRE Archaeologist and the Stewarts Point Rancheria THPO. When artifacts and/or other site indicators are encountered during</i></p>		<p>kind shall take place within the boundaries of the Artesa Crossing Site.</p>	

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		<p><i>operations, ground disturbing activities within 100 feet of the find shall be halted, and the provisions of 14 CCR 929.3 implemented (which include promptly notifying the CAL FIRE Archaeologist about the find).</i></p> <p><u><i>End of the Day Site:</i></u></p> <p><i>1. No project or ground disturbing activities or impacts of any kind shall take place within the site boundaries. Site boundaries shall be clearly marked by the consulting archaeologist and/or his qualified designee - in consultation with the Stewarts Point Rancheria THPO or his designee – with highly visible fencing prior to and during all ground disturbing timber harvesting and vineyard development. This fencing shall be maintained as necessary throughout ground disturbing activities within 100 feet of the site boundary. This location shall be clearly plotted on the project maps with specific and clear notations that this area is NOT to be encroached upon. In so doing, however, this location shall NOT be specifically labeled or identified as an archaeological site on the project maps in order to keep the identity and</i></p>	<p>CAL FIRE Stewarts Point Rancheria THPO</p>	<p>During construction and operation -- no project or ground disturbing activities or impacts of any kind shall take place within the boundaries of the End of the Day Site.</p>	

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		<p><i>location of the site confidential and thus protect the site from damage by artifact hunters or vandals.</i></p> <p>2. <i>Ground disturbing activities taking place within 100 feet of the site shall be monitored by a professional consulting archaeologist and the Stewarts Point Rancheria THPO or his designee(s). Prior to beginning operations, the scope of the monitoring shall be determined in consultation with the CAL FIRE Archaeologist and the Stewarts Point Rancheria THPO. When artifacts and/or other site indicators are encountered during operations, ground disturbing activities within 100 feet of the find shall be halted, and the provisions of 14 CCR 929.3 implemented (which include promptly notifying the CAL FIRE Archaeologist about the find).</i></p> <p>3. <i>All trees within 100 feet of the site boundary that are to be harvested shall be felled and skidded away.</i></p> <p>4. <i>If management of the trees within the site boundaries to minimize shading of the future surrounding vineyard is necessary, specific</i></p>			

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		<p><i>measures to prevent damage to the site shall be proposed by the RPF as an amendment to the THP.</i></p> <p><u><i>Mendocino Redwood Company Property Site:</i></u></p> <ol style="list-style-type: none"> <i>1. Ground disturbing activities within 100 feet of the property corner near where this site was found shall be monitored by a professional archaeologist and the Stewarts Point Rancheria THPO or his designee.</i> <i>2. The scope of the monitoring operations shall be included in the Monitoring Plan prescribed in Mitigation Measure 3.5-3(a).</i> <i>3. Whenever a previously unidentified prehistoric or historic archaeological site is found during operations, ground disturbance within 100 feet of the find shall stop, the Department Archaeologist shall be immediately notified and the other provisions prescribed in 14 CCR 929.3 [949.3, 969.3] implemented.</i> 	<p>CAL FIRE</p> <p>Stewarts Point Rancheria THPO</p>	<p>During construction and operation -- no project or ground disturbing activities or impacts of any kind shall take place within the boundaries of the Mendocino Redwood Company Site.</p>	
3.5-3	Impacts to historical resources.	<p><i>3.5-3(a) Prior to initiation of timber harvest operations, the applicant shall hire a qualified archeologist to prepare an archaeological monitoring plan for the review and approval by the CAL FIRE</i></p>	<p>CAL FIRE</p> <p>Stewarts Point Rancheria THPO</p>	<p>Prior to initiation of timber harvest operations.</p>	

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		<p><i>Northern Region-Coast Area Archaeologist and the Stewarts Point Rancheria THPO. The plan shall include, but not necessarily be limited to the following measures:</i></p> <ul style="list-style-type: none"> • <i>Native American monitor(s) (representing the Stewarts Point Rancheria tribe and designated by the Stewarts Point Rancheria THPO) and an archaeological monitor(s) shall be present during all earth-moving activities associated with the proposed project.</i> • <i>Historical features shall be considered historically significant if the feature is a discrete deposit identifiable to the period of significance for the two mills, or if the deposit relates to substantially earlier occupation and the agricultural activities on the project site.</i> • <i>Prehistoric Native American deposits shall be considered an archaeological site if three or more cultural items are found within an area measuring roughly ten feet on a side.</i> • <i>Archaeological deposits that retain a strong focus, that is the ability to clearly represent the activities that created the deposit, shall be considered to have</i> 			

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		<p><i>sufficient integrity to meet the criteria for listing on the National Register.</i></p> <ul style="list-style-type: none"> • <i>Identified sites shall be avoided by establishing construction fencing around the perimeter of each site designated for this type of protection to prevent damage from vineyard development activities. Vineyard workers shall be trained regarding the importance of cultural materials.</i> • <i>If the resources cannot remain in situ, Mitigation Measure 3.5-2(c) shall be implemented (i.e., Data Recovery Plan).</i> <p>3.5-3(b) <i>Prior to initiation of timber harvest operations, an archeological monitor shall be hired by the applicant and approved by the CAL FIRE Northern Region-Coast Area Archaeologist to train the timber harvest crew, and subsequently, the vineyard construction crew prior to commencement of ground disturbing activities in regard to the types of artifacts that they may find (including, but not limited to, ceramics/pottery, glass and/or metal artifacts and fragments, building foundations, linear features such as railroad grades, wells, privies, trash pits). In the event that an artifact is discovered, all work shall cease within 100 feet of the discovery until the</i></p>	CAL FIRE	Prior to initiation of timber harvest operations and commencement of ground disturbing activities.	

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		<i>archaeological monitor(s) has evaluated the find. The archaeological monitor(s) shall promptly consult with the CAL FIRE Northern Region Headquarters Archaeologist. If the resources cannot remain in situ, Mitigation Measure 3.5-2(c) shall be implemented (i.e., Data Recovery Plan).</i>			
3.6 Geology					
3.6-2	Impact of seismic activity on proposed reservoir.	<i>3.6-2 Prior to the issuance of grading permits, the applicant shall provide a final geotechnical report to the Sonoma County Permit and Resource Management Department and CAL FIRE that addresses the entire reservoir area. All of the recommendations in the final geotechnical report shall be incorporated into the construction plans for the reservoir.</i>	CAL FIRE Sonoma County PRMD	Prior to issuance of grading permits.	
3.6-4	Increased soil erosion during and after construction from conversion and grading activities.	<i>3.6-4 Implement Mitigation Measures 3.7-2(a) to 3.7-2(h) and 3.7-3(a) and (b).</i>	CAL FIRE	Prior to issuance of grading permits.	
3.7 Hydrology and Water Quality					
3.7-2	Impacts to surface water quality from timber harvest and vineyard construction-related erosion and sedimentation.	<i>3.7-2(a) All timber harvesting activities on the project site, including harvest-associated road construction and maintenance, shall comply with California Forest Practice Rules water quality protection measures, as described in the Timber Harvest Plan prepared for the proposed project and</i>	CAL FIRE	During timber harvest operations in accordance with the THP for the project.	

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		<p><i>approved by the Department of Forestry. The measures include, but are not limited to, the following:</i></p> <ul style="list-style-type: none"> • <i>Timber harvesting or timber operations shall not take place within the WLPZ adjacent to the conversion THP area;</i> • <i>The Licensed Timber Operator (LTO) shall utilize directional felling of timber adjacent to the WLPZ away from the zone, in order to protect the integrity of the zone;</i> • <i>The LTO shall not pile dirt and debris within or adjacent to the edge of the WLPZs;</i> • <i>Branches and tops of conifers, root wads, and hardwoods shall not be piled up for burning adjacent to WLPZs;</i> • <i>Timberland conversion operations (i.e., non-merchantable vegetation removal and stump removal) shall be immediately followed by initial vineyard development operations. Where this is not possible, skid trails and areas of exposed mineral soil created by commercial timber harvest operations shall be grass-seeded and mulched at 90 percent cover prior to November 15 of the timber harvesting season;</i> • <i>Operations between October 15 and November 15 shall cease when three (3)</i> 			

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		<p><i>inches of rainfall has been recorded on-site;</i></p> <ul style="list-style-type: none"> • <i>The LTO shall not place, discharge, or dispose of or deposit in such a manner as to permit to pass into the waters of the state, any substance or materials, including, but not limited to, soil, silt, bark, slash, sawdust, or petroleum, in quantities deleterious to fish, wildlife, beneficial functions of riparian zones, or the quality and beneficial uses of water; and</i> • <i>The LTO shall not remove water, trees, or large woody debris from a watercourse or lake, the adjacent riparian area, or the adjacent flood plain in quantities deleterious to fish, wildlife, beneficial functions of riparian zones, or the quality and beneficial uses of water.</i> 			
		<p>3.7-2(b) <i>All temporary roads located within the project area and used to remove timber from the site shall be located away from streambeds, on slopes that are less than 15 percent and in areas that are currently stable. With the exception of the two permanent roads, all existing seasonal roads, tractor roads, and landings shall be abandoned and planted with vines and/or groundcovers following completion of timber harvesting operations. In the event that timber harvesting</i></p>	CAL FIRE	During timber harvest operations in accordance with the THP for the project.	

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		<p><i>operations cannot be immediately followed by vineyard development, tractor roads shall have drainage and/or drainage collection and storage facilities installed as soon as practicable, but prior to October 15.</i></p>			
		<p>3.7-2(c) <i>Existing permanent roads on the project site shall be improved (and in some cases reconstructed) in conjunction with development of this project, reducing the sediment loadings from existing road gullies.</i></p>	CAL FIRE	During construction of the proposed vineyard.	
		<p>3.7-2(d) <i>Road construction on the project site shall be carried out utilizing the following criteria identified in the ECP as being in conformance with the Technical Support Document (TSD) for the Gualala River Watershed Water Quality Attainment Action Plan for Sediment (CWRCB, 2001):</i></p> <ul style="list-style-type: none"> • <i>Roads shall be outsloped and graded to prevent flow in wheel tracks;</i> • <i>Water bars shall be placed at a maximum of 100 feet off center where slopes are greater than 15 percent;</i> • <i>Rocked fords shall be installed through seasonal swales or runoff areas;</i> • <i>Roadside ditches shall be graded and shaped;</i> 	CAL FIRE	During construction of the proposed vineyard in accordance with the project Erosion Control Plan.	

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		<ul style="list-style-type: none"> • <i>Cut and fill slopes shall be consistent with slope stability and available access corridors; and</i> • <i>Side cast materials shall be stabilized by slope limits, compaction, mulching, and seeding.</i> 			
		<p>3.7-2(e) <i>Skid trails associated with the project shall not be used during the winter season (November 15th through April 1st), and shall be abandoned upon completion of harvesting activities. In the event that timber harvesting operations cannot be immediately followed by vineyard development, skid trails shall be grass seeded and mulched as specified above.</i></p>	CAL FIRE	During timber harvesting operations.	
		<p>3.7-2(f) <i>The applicant shall provide for annual inspection of project-associated decommissioned logging roads, to assure gulying and erosion is not occurring.</i></p> <p><i>Please refer to the Timber Harvest Plan (Appendix E) for further information.</i></p>	CAL FIRE	Following timber harvest operations.	
		<p>3.7-2(g) <i>Prior to issuance of grading permits, the applicant shall obtain applicable NPDES permits from the North Coast Regional Water Quality Control Board and comply with all applicable</i></p>	RWQCB SWRCB	Prior to issuance of grading permits.	

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		<p><i>programs. Compliance with the Permit requires the project applicant to file a Notice of Intent (NOI) with the State Water Resources Control Board (SWRCB) and prepare a Storm Water Pollution Prevention Plan (SWPPP) prior to construction. The SWPPP would incorporate Best Management Practices (BMPs) in order to prevent, or reduce to the greatest extent feasible, adverse impacts to water quality from erosion and sedimentation: the SWPPP shall be provided for the review and approval of the SWRCB.</i></p> <p><u>Post-Construction Monitoring</u></p> <p>3.7-2(h) <i>The following Post-Construction Monitoring Plan shall be implemented by the project applicant for the review and approval of the California Department of Forestry and Fire Protection and the Sonoma County Permit and Resources Management Department. This post-construction monitoring plan is intended to supplement the project ECP and SWPPP for the first winter season after project construction. This monitoring plan may apply to specific sub-areas of the project, and could extend for more than one year, depending on the ultimate construction schedule. The monitoring plan shall be implemented for areas where site preparation has occurred in the prior construction season,</i></p>	<p>CAL FIRE</p> <p>Sonoma County PRMD</p>	<p>Post-construction monitoring in the first winter season after project construction.</p>	

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		<p><i>including soil preparation, grading and drainage installation. The first-year post-construction monitoring requirement is fulfilled if the monitoring period follows all grading and drainage work, regardless of whether vineyard planting and cover crops have been established. If site preparation work is conducted, but final grading and drainage installation is not complete, this monitoring plan will extend to the subsequent winter until final grading and drainage work is complete. This monitoring plan may be combined with provisions of the ECP or SWPPP as appropriate subject to governing regulations.</i></p> <p><i>The post-construction monitoring plan has three components:</i></p> <ol style="list-style-type: none"> <i>1. Review of ECP and SWPPP provisions and implementation.</i> <i>2. Field inspections triggered by rainfall events.</i> <i>3. Response and reporting.</i> <p><u><i>ECP and SWPPP Review</i></u></p> <p><i>These erosion and drainage control plans are prepared by professional engineers, and are reviewed and enforced under local and State</i></p>			

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		<p><i>regulatory authority. The monitoring plan will use these plans, consisting of maps with specific installations and Best Management Practices (BMPs), to define specific objectives of field inspections. The ECP and SWPPP will define anticipated erosion locations and processes. The monitoring plan will consist of a checklist and maps derived from the ECP and SWPPP that guide field inspection of project work areas, particularly the perimeters where eroded sediment and runoff would be delivered from source areas.</i></p> <p><u><i>Field Inspections</i></u></p> <p><i>On-site inspections of portions of the project area subject to monitoring will occur in response to rainfall events as specified here. ECP and SWPPP requirements typically include complete installation of winter erosion control measures between October 1 and October 15. Rainfall reported for the Venado gage site located in the Coast Range in northwest Sonoma County will be used to determine the timing of field inspections. Real time data from this rain gage can be accessed via the internet from either of the following URLs:</i></p> <ul style="list-style-type: none"> • <i>http://cdec.water.ca.gov/</i> 			

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		<ul style="list-style-type: none"> • http://www.cnrfc.noaa.gov/precipMaps.php?group=rn&hour=24&synoptic=0 <p><i>The first field inspection will occur within two days following the first rainfall exceeding 1-inch in a 24 hour period beginning October 1. The second field inspection will occur when one of the two following conditions are met: 1-inch of rainfall in a 24 hour period after cumulative seasonal rainfall of 6 inches has occurred, or 2 inches of rainfall in a 24 hour period. A third inspection would occur after 1-inch of rainfall in a 24 hour period following seasonal accumulation of 12 inches of rainfall. Thereafter, inspections would occur following 2 inches of rainfall in 24 hours or within four weeks of the previous inspection, whichever occurs first.</i></p> <p><i>It is expected that any significant erosion problems will have developed, and been addressed within the first few substantial rainstorms, and that there would be a diminishing likelihood of identification of new problems after the first few inspections. After a total of six inspections have been performed according to the protocol above, subsequent inspections are optional and may be performed at the discretion of the project proponent. Inspections are not required within 7 days of any</i></p>			

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		<p><i>prior inspection, regardless of rainfall.</i></p> <p><i>Field inspectors will survey the portions of the site subject to monitoring and complete a visual inspection of the site guided by the checklist and maps developed during the ECP and SWPPP review. Supplemental documentation of conditions using photography is encouraged, but is not required. The checklist developed will be the primary reporting document and will include the following elements:</i></p> <ul style="list-style-type: none"> <i>• Observation date, time, weather conditions, precipitation event or other circumstances requiring inspection, observers name and contact information, name and contact information for project personnel responsible for maintenance and repair of erosion control measures.</i> <i>• A map developed for the monitoring program with cross-references between areas identified on ECP and SWPPP maps and checklist items.</i> <i>• Field assessment of erosion control measures as adequate or requiring immediate additional controls or repairs.</i> <i>• Measurements or quantitative estimates of volume of eroded and deposited material,</i> 			

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		<p style="text-align: center;"><i>referenced to a location, and assessment of whether sediment was delivered to a watercourse.</i></p> <p style="text-align: center;"><u>Response and Reporting</u></p> <p><i>The field inspector will provide advance notice of inspections, to the extent possible, to responsible project personnel to facilitate immediate response should it be necessary. If the field inspection identified any locations requiring immediate attention to repair or expand erosion control measures, the inspector shall contact responsible project personnel as soon as possible. A copy of the inspection checklist will be provided to responsible project personnel via facsimile or e-mail for review within 24 hours of the inspection. Project personnel will provide a written summary of any erosion control measures implemented in response to the field inspection within 5 calendar days of receipt of the inspection report. A summary report for each winter monitoring season will be submitted not later than June 15 to the regulatory authorities responsible for review and implementation of the ECP (County of Sonoma) and SWPPP (NCRWQCB).</i></p>			
3.7-3	Impacts to surface water quality from vineyard-related	3.7-3(a) <i>Prior to the issuance of grading permits, the applicant shall provide proof to the Department</i>	CAL FIRE	Prior to issuance of grading	

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		<p>3.7-3(b) <i>The following Channel Erosion and Sedimentation Basin Monitoring Plan shall be implemented by the project applicant for the review and approval of the California Department of Forestry and Fire Protection and the Sonoma County Permit and Resource Management Department.</i></p> <p><u>Monitoring Plan - Class III Channel Response to Potential Peak Flow Increases, Artesa Fairfax THP & Conversion.</u></p> <p><u>Motivation</u></p> <p><i>The monitoring plan is motivated by findings of the O'Connor Hydrologic Analysis indicating the potential magnitude (Table 6, p. 29) and potential significance (Table 12, p.52) of expected peak flow increases. Erosion rates in existing stream channels could be accelerated by increased runoff and peak flow expected to result from the project.</i></p> <p><i>There is no compelling evidence that hydrologic change will cause significant erosion in Class III channels draining the project area. Channel response to peak flows is controlled by the size of channels, channel substrate, and the proximity of bedrock and boulder controlled channels</i></p>	<p>CAL FIRE</p> <p>Sonoma County PRMD</p>	<p>monitoring of channels and sedimentation basins annually for three years after project development.</p>	

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		<p><i>downstream. Potential erosion of channels draining the project area is limited to varying degrees by these factors. Furthermore, peak discharge for high-magnitude, low-frequency flows (> 5 yr recurrence interval events) under current conditions indicate that the largest increases in peak flows (2 yr recurrence interval events) predicted under project conditions would be well within the range of flows transmitted by the existing channels in most locations. Hence, the potential for significant channel erosion related to peak flow change is limited by several factors.</i></p> <p><i>Given the relatively high variability and complexity of hydrologic and geomorphic processes, channel response to identified potential peak flow increases is somewhat uncertain. While the predictable potential effects of the project with mitigation are not significant, unpredictable events or unexpected responses could have substantial impacts. Consequently, a monitoring program is presented below at a conceptual level including substantial detail.</i></p> <p><u>Objective</u></p> <p><i>The objective of the monitoring plan is to observe and document erosion response, if any, of Class</i></p>			

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		<p><i>III channels draining the project area and verify that the magnitude of response does not rise to a significant level. No net increase in sediment yield from the project area is an environmental objective of the project.</i></p> <p><i>The Erosion Analysis concluded that the project (with mitigation) is expected to reduce sediment yields by 24 to 39 t/yr. The specific objective of this monitoring plan is to determine whether potential increases in sediment yield associated with accelerated channel erosion are less than 24 to 39 t/yr. In addition, the performance of sedimentation basins will be monitored to provide measurements of vineyard field erosion and sedimentation basin trapping efficiency. These measurements are warranted because they could lead to revisions of predicted vineyard field erosion, which could either increase or decrease the threshold of significance of channel erosion.</i></p> <p><u><i>Monitoring Plan</i></u></p> <p><i>The monitoring plan has three components:</i></p> <ol style="list-style-type: none"> <i>1. Detailed topographic surveys of selected channels;</i> <i>2. Annual survey of erosion of “sensitive” channels; and</i> 			

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		<p>3. <i>Survey of selected sedimentation basins.</i></p> <p><i>The annual monitoring survey results shall be submitted to CAL FIRE and the Sonoma County Permit and Resource Management Department.</i></p> <p><u><i>Topographic Surveys of Selected Class III Channel Reaches</i></u></p> <p><i>This element of the monitoring plan would include detailed topographic surveys using a total survey station to measure changes in channel elevation for sample sections of selected Class III stream channels. This study approach has been previously implemented by O'Connor Environmental for Class III streams in Humboldt County to fulfill monitoring requirements of the Pacific Lumber Company Habitat Conservation Plan. The strength of this approach is that it develops accurate, objective quantitative data documenting the dimensions and elevation of channels before the project and three years after project completion. This will provide statistical measures (using parametric techniques), of channel erosion rates that can be extrapolated to assess the magnitude of channel erosion in the project area. The study will be designed so that a range of hydrologic change is observed that will indicate whether peak flow change is correlated</i></p>			

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		<p><i>with channel erosion rate. Specifically, six channels (2, 20, 31, 40, 45B and 60A; see Hydrologic Analysis, Figure 6 for locations of these channels and Table 6 for the magnitude of expected peak flow change) would be monitored to determine erosion rates over a three year period.</i></p> <p><u><i>Annual Surveys of Class III Channels</i></u></p> <p><i>This annual survey would be conducted for the 18 channels considered to be moderately sensitive to peak flow (Hydrologic Analysis, Table 12). The survey technique to be employed would systematically observe and measure the surface area and depth of fresh channel and bank erosion features as a measure of annual erosion rates. This technique, while objective, requires field estimates that have only moderate levels of precision. The advantage of this approach is that it allows for broad coverage of the monitoring sites and is likely to detect significant changes in the rates of channel and bank erosion. Statistical tests for change would most likely utilize techniques for non-parametric data. These surveys would be conducted four times: once prior to project implementation to document baseline conditions, and then annually in late winter/early spring when annual erosion features</i></p>			

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		<p><i>are relatively easy to detect and measure. These annual surveys developed over a broad project area are also important in that they would likely detect unexpected rates of change in a time frame that would allow for timely response, if necessary.</i></p> <p><u><i>Annual Surveys of Selected Sedimentation Basins</i></u></p> <p><i>This annual survey would measure the volume of accumulated sediment and the grain size distribution of accumulated sediment in a sample of about 25% of the sedimentation basins in the project. By comparison to grain size distribution of the vineyard soils, the deposited sediment size distribution and volume can be used to estimate the erosion rate of the vineyard fields and the sedimentation basin trapping efficiency (see Reid and Dunne, 1996, Rapid Evaluation of Sediment Budgets, p. 49). The monitoring would be comprised of annual measurements of depth of accumulated sediment in selected basins and collection and laboratory analysis of samples of accumulated sediment. The selection of basins for monitoring would include a range of sediment basin sizes. Data analysis would include comparison of pre-project estimates of vineyard erosion rates and sediment trapping efficiency to measured rates and efficiency.</i></p>			

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		<p style="text-align: center;"><u><i>Adaptive Management</i></u></p> <p><i>If monitoring data indicate that sediment yields from the project area are greater than predicted in the pre-project analyses, either from unexpected erosion of Class III channels or higher-than expected delivery rates of sediment eroded from vineyard fields, appropriate on- and off-site erosion mitigation will be developed with oversight by the lead CEQA agency or an alternative regulatory authority designated by lead CEQA agency.</i></p> <p><i>On- and off-site erosion mitigation, if deemed necessary and appropriate, may include identification of additional and presently unidentified erosion sites on the project site or on other property in the Patchett Creek watershed. Potential erosion sites could include road-related erosion sites, gullies, eroding stream banks, eroding landslide deposits, or other erosion sites delivering or potentially delivering substantial quantities of sediment to the stream channel network. Off-site projects should be developed in cooperation with any property owner involved, and should include an appropriate level of contribution from each property owner. Disused or informally abandoned logging roads and skid</i></p>			

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		<i>trails are probably the most appropriate type of erosion site to target for off-site mitigation, however, other types of sites should be considered if identified. If suitable or practical sites cannot be located in the Patchett Creek watershed, then sites in the Wheatfield Fork Gualala River watershed should be considered.</i>			
3.7-4	Water quality impacts pertaining to chemical contamination from timber harvest and vineyard operations.	3.7-4 <i>Prior to the issuance of grading permits, the applicant shall provide the Department of Forestry and the Sonoma County Permit and Resource Management Department with an Agricultural Chemical Use and Storage Contingency Plan. The Plan shall include the measures that will be taken in the occasion that a spill occurs. Potential measures include: the deployment of straw wattles or other barriers stored on-site, instructions for diverting any overland flow away from onsite drainages, the on-site storage of absorbent materials to clean up any spills, and a prominent listing of accident and hazard responding agencies, including: the Sonoma County Department of Emergency Services and the Sonoma County Hazardous Materials Response Team. The Plan shall be made available to all workers handling pesticides and shall be posted on the corporation yard building.</i>	CAL FIRE Sonoma County PRMD	Prior to issuance of grading permits.	

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3.8 Hazards					
3.8-1	Safety-related impacts pertaining to the presence of hazardous chemicals associated with the old sawmill site.	3.8-1(a) <i>Prior to issuance of a demolition permit by the County for any on-site structures, the applicant shall provide a site assessment that determines whether the old sawmill foundation to be demolished contains asbestos and/or other hazardous substances. If asbestos and/or other hazardous substances are found at levels above the applicable fiber count (asbestos) or TTLC (other substances) set by DTSC, the application shall include an asbestos abatement plan and/or hazardous substance remediation plan and the contractor shall take appropriate precautions to protect his/her workers, the surrounding residences, and to dispose of any hazardous construction waste in a manner consistent with local, State, and federal standards, subject to approval by the County Building Official and DTSC.</i>	Sonoma County Building Official Department of Toxic Substances Control (DTSC)	Prior to issuance of a demolition permit for any on-site structures.	
		3.8-1(b) <i>Prior to issuance of grading and/or demolition permits, multiple soil samples shall be taken from the abandoned mill site and the samples shall be analyzed by a licensed toxic substances specialist. If hazardous chemicals are detected at levels in the soil samples above the applicable TTLC set by the DTSC, the applicant shall retain a licensed and certified hazardous waste removal</i>	Sonoma County Environ. Health Department (SCEHD) DTSC, if contaminated soils are detected	Prior to issuance of grading and/or demolition permits.	

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		<i>contractor to prepare a remediation plan for the contaminated areas in accordance with local, State, and federal regulations and to the satisfaction of Sonoma County Environmental Health Department and the DTSC.</i>	on-site.		
3.8-2	Safety-related impacts pertaining to the presence of hazardous chemicals associated with past illegal activities on the site.	3.8-2 <i>Prior to issuance of grading and/or demolition permits, multiple soil samples shall be taken from the eastern portion of the project site in the vicinity of the dumped vehicles, and the samples shall be analyzed by a licensed toxic substances specialist. If hazardous chemicals are detected at levels in the soil samples above the applicable TTLC set by the DTSC, the applicant shall retain a licensed and certified hazardous waste removal contractor to prepare a remediation plan for the contaminated areas in accordance with local, State, and federal regulations and to the satisfaction of Sonoma County Environmental Health Department and the DTSC.</i>	SCEHD DTSC, if contaminated soils are detected on-site.	Prior to issuance of grading and/or demolition permits.	
3.8-3	Impacts relating to the past use of agricultural chemicals on the project site.	3.8-3 <i>Prior to the initiation of any ground disturbance activities, the project applicant shall provide to the Sonoma County Environmental Health Department a detailed environmental assessment pertaining to the on-site soils. If pollutants of concern are not detected, further mitigation is not necessary. If the assessment finds concentrations of any agricultural chemical residue that is above the applicable TTLC set forth by the DTSC, thereby, potentially creating</i>	SCEHD DTSC, if contaminated soils are detected on-site.	Prior to the initiation of any ground disturbing activities.	

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		<i>an unacceptable risk to workers on the project site, prior to issuance of a grading permit, the Sonoma County Environmental Health Department shall require the applicant to remediate the pesticide to the satisfaction of Sonoma County Environmental Health Department and the DTSC.</i>			
3.8-4	Impacts relating to the potential use of agricultural chemicals during project operations.	3.8-4 <i>Implement Mitigation Measure 3.7-4.</i>	CAL FIRE Sonoma County PRMD	Prior to issuance of grading permits.	
3.8-5	Impacts from wildfire hazards.	3.8-5 <i>A fire hazard reduction zone shall be observed along those portions of the timberland conversion area that are adjacent to Annapolis Road, a county maintained public road. The fire hazard reduction zone shall extend 100 feet from the edge of Annapolis Road. Within this zone, slash created and trees knocked down by road construction or timber operations shall be treated for fire hazard reduction by lopping, piling and burning or removal from the zone. Lopping used within a fire hazard reduction zone shall consist of severing and spreading slash so that no part of it remains more than 30 inches above the ground.</i>	CAL FIRE	Prior to and during project development.	
3.9 Transportation and Circulation					
3.9-2	Short-term traffic impacts due to timber harvesting and	3.9-2 <i>Prior to any logging taking place on the site, the project applicant shall prepare a Construction</i>	CAL FIRE	Prior to logging on-site.	

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	vineyard development.	<i>Traffic Management Plan for review and approval by CAL FIRE. The plan should include all plans for temporary traffic control, temporary signage and striping, location points for ingress and egress of logging vehicles, staging areas, and timing of logging activity which appropriately limits hours during which large construction equipment may be brought on or off the site.</i>			
3.10 Noise					
3.10-1	Short-term construction noise impacts.	<i>3.10-1 Timber harvest and vineyard construction activities shall be restricted to the hours of 7:00 am to 4:00 pm Monday through Saturday. Construction shall be prohibited on Sundays. In addition, all heavy construction equipment and all stationary noise sources (such as diesel generators) shall be fitted with factory-specified mufflers, and equipment warm up areas, water tanks, and equipment storage areas shall be located in an area as far away from residences in existence at the time of EIR certification as is feasible. These criteria shall be included in the improvement plans submitted to the Sonoma County Permit and Resource Management Department prior to initiation of construction.</i>	CAL FIRE Sonoma County PRMD	Prior to initiation of timber operations and construction.	
3.10-3	Noise impacts related to operation of the vineyard.	<i>3.10-3 In order to minimize noise impacts to residences surrounding the project site during grape harvest</i>	Sonoma County PRMD	Prior to initiation of construction.	

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		<p><i>season, mechanical harvesting operations shall be limited as follows:</i></p> <ul style="list-style-type: none"> • <i>Daytime mechanical harvesting operations shall be limited to areas at least 280 feet from residences in existence at the time of EIR certification; and</i> • <i>Nighttime mechanical harvesting operations shall be limited to areas at least 500 feet from residences in existence at the time of EIR certification.</i> <p><i>These criteria shall be included in the improvement plans submitted to the Sonoma County Permit and Resource Management Department prior to initiation of construction. These criteria shall be implemented unless noise level measurements are conducted by a qualified environmental noise consultant that such activities do not result in exceedance of the Sonoma County interior noise level standards.</i></p>			