The Mosaic Project Mitigation Monitoring and Reporting Program

This Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Mosaic Project. The purpose of the MMRP is to ensure that the mitigation measures identified in the EIR for the proposed project are implemented. The MMRP includes the following information:

- The full text of the mitigation measures;
- The party responsible for implementing the mitigation measures;
- The timing for implementation of the mitigation measure;
- The agency responsible for monitoring the implementation; and
- The monitoring action and frequency.

Alameda County must adopt this MMRP, or an equally effective program, if it approves the proposed project with the mitigation measures that were adopted or made conditions of project approval.

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TABLE 1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency					
AIR QUALITY										
Mitigation Measure AQ-2: The project construction contractor shall comply with the following the Bay Area Air Quality Management District's best management practices for reducing construction emissions of uncontrolled fugitive dust (coarse inhalable particulate matter [PM ₁₀] and fine inhalable particulate matter [PM _{2.5}]): Water all active construction areas at least twice daily or as often as needed to control dust emissions. Watering shall be sufficient to prevent airborne dust from leaving the site. Increased watering frequency may be necessary whenever wind speeds exceed 15 miles per hour. Reclaimed water shall be used whenever possible.	construction building permits Department contractor authorizing grading	Review construction plans and specifications and conduct site inspections	During scheduled construction site inspections							
 Pave, apply water twice daily or as often as necessary to control dust, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites. 										
 Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least 2 feet of freeboard (i.e., the minimum required space between the top of the load and the top of the trailer). 										
Sweep daily (with water sweepers using reclaimed water if possible) or as often as needed all paved access roads, parking areas, and staging areas at the construction site to control dust.										
Sweep public streets daily (with water sweepers using reclaimed water if possible) in the vicinity of the project site, or as often as needed, to keep streets free of visible soil material.										
 Hydro-seed or apply non-toxic soil stabilizers to inactive construction areas. 										
Enclose, cover, water twice daily, or apply non-toxic soil binders to exposed stockpiles (e.g., dirt, sand).										
Limit vehicle traffic speeds on unpaved roads to 15 miles per hour.										
Replant vegetation in disturbed areas as quickly as possible.										
 Install sandbags or other erosion control measures to prevent silt runoff from public roadways. 										
These measures shall be noted on grading plans. The construction contractor shall implement these measures during ground disturbing activities. The project applicant shall verify compliance that these measures have been implemented during normal construction site inspections.										

TABLE 1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
Mitigation Measure AQ-4: The project applicant shall prepare and implement an Odor Management Plan (Plan) to ensure compliance with BAAQMD Regulation 1, Rule 1-301, Public Nuisance. The Plan shall control odors generated by manure collection and storage from the farm animals to ensure odors would not constitute a public nuisance. The Plan shall be prepared to the satisfaction of the Alameda County Community Development Director or their designee prior to occupancy permits. At minimum, the Plan shall include the following: A sufficient buffer zone shall be implemented between the sensitive receptors and sources of odors	Project applicant	Prior to issuance of occupancy permits	County Planning Department	Review and approve Odor Management Plan	Once, prior to operation
Soiled bedding shall be removed and replaced with new bedding (e.g., straw, wood shavings, wood pellets, etc.) on a daily basis.					
 Manure spills shall be cleaned upon occurrence. The moisture content of stockpiled manure shall be minimized to reduce the potential for release of odorous compounds during storage (e.g., use of a tarp to cover stockpiled manure). 					
 Dust suppression measures shall be implemented to prevent the release of odorous compound-carrying fugitive dust 					
Mitigation Measure AQ-5: Implement Mitigation Measures AQ-2 and AQ-4.	Project applicant/ construction contractor	Prior to issuance of building permits authorizing grading or other construction activities, during construction, and prior to issuance of occupancy permits	County Building and Planning Departments	Review construction plans and specifications, conduct site inspections, and review and approval Odor Management Plan	During scheduled construction site inspections and once, prior to operation
BIOLOGICAL RESOURCES					
Mitigation Measure BIO-1.1: Adequate measures shall be taken to avoid inadvertent take of bird nests of native species protected under the federal Migratory Bird Treaty Act and State Fish and Game Code when in active use. This shall be accomplished by taking the following steps: If tree removal and initial construction is proposed during the nesting season (February 1 to August 31), a focused survey for nesting raptors and other	Project applicant/ qualified biologist	Within 7 days prior to tree and vegetation removal	County Planning Department/CDFW	Review and approve report findings and implement required setback distances for the	Once, prior to initiation of vegetation removal, building demolition, grading and

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TABLE 1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
migratory birds shall be conducted by a qualified biologist within 7 days prior to the onset of tree and vegetation removal in order to identify any active nests on the site and surrounding area within 100 feet of proposed construction. The proposed development area of the project site shall be resurveyed to confirm that no new nests have been established if vegetation removal and demolition has not been completed or if construction has been delayed or curtailed for more than 7 days during the nesting season.				no-disturbance zone based on CDFW input if bird nests are found	other construction during the nesting season
If no active nests are identified during the construction survey period, or development is initiated during the non-breeding season (September 1 to January 31), tree and vegetation removal, building demolition, and project construction may proceed with no restrictions.					
If bird nests are found, an adequate setback shall be established around the nest location and vegetation removal, grading, and other construction activities restricted within this no-disturbance zone until the qualified biologist has confirmed that any young birds have fledged and are able to function outside the nest location. Required setback distances for the no-disturbance zone shall be based on input received from the CDFW, and may vary depending on nest location, species, and sensitivity to disturbance. As necessary, the no-disturbance zone shall be fenced with temporary orange construction fencing if construction is to be initiated on the remainder of the proposed development area on the project site.					
A report of findings shall be prepared by the qualified biologist and submitted for review and approval by the County prior to initiation of vegetation removal, building demolition, grading and other construction during the nesting season (February 1 to August 31). The report shall either confirm absence of any active nests or should confirm that any young are located within a designated nodisturbance zone and construction can proceed. Following approval by the County, tree removal, building demolition, and construction within the nest buffer zone may proceed. No report of findings is required if vegetation removal and other construction is initiated during the non-nesting season (September 1 to January 31) and continues uninterrupted according to the above criteria.					
 Mitigation Measure BIO-1.2: Adequate measures shall be taken to avoid inadvertent take of special-status bat species if present in trees within the proposed development area on the project site. This shall be accomplished by taking the following steps: A qualified biologist shall visually inspect trees to be removed and buildings to be demolished for bat roosts within 7 days prior to their removal. The biologist shall look for signs of bats including sightings of live or dead bats, bat calls or 	Project applicant/ qualified biologist	Prior to tree removal and building demolition and during construction activities	County Planning Department/CDFW	Review survey reports and establish appropriate exclusion zone around the occupied tree or	Once, prior to construction, and during scheduled construction site inspections
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TABLE 1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
squeaking, the smell of bats, bat droppings, grease stains or urine stains around openings in trees, or flies around such openings. Trees with multiple hollows, crevices, forked branches, woodpecker holes, or loose and flaking bark have the highest chance of occupation and shall be inspected the most carefully.				structure if an active maternity roost is encountered	
If signs of bats are detected, confirmation on presence or absence shall be determined by the qualified biologist, which may include night emergency or acoustic surveys.				during the maternity season	
 Due to restrictions of the California Health Department, direct contact by workers with any bat is not allowed. The qualified bat biologist shall be contacted immediately if a bat roost is discovered during project construction. 					
If an active maternity roost is encountered during the maternity season (April 15 to August 31), the CDFW shall be contacted for direction on how to proceed and an appropriate exclusion zone established around the occupied tree or structure until young bats are old enough to leave the roost without jeopardy. The size of the buffer would take into account:					
 Proximity and noise level of project activities; Distance and amount of vegetation or screening between the roost and construction activities; and 					
Species-specific needs, if known, such as sensitivity to disturbance.					
 Mitigation Measure BIO-1.3: Adequate measures shall be taken to avoid inadvertent take of San Francisco dusky-footed woodrats on the project site. This shall be accomplished by taking the following steps: A qualified biologist shall be retained to conduct a preconstruction survey for San Francisco dusky-footed woodrats, to determine whether any stick nests are present in the vicinity of proposed vegetation removal and development. The survey shall be performed within 30 days prior to initiation of vegetation removal and grading. 	Project applicant/ qualified biologist	Within 30 days prior to initiation of vegetation removal and grading	County Planning Department	Review survey reports	Once, prior to initiation of vegetation removal and grading
If any nests are encountered within the limits of proposed grading and development, a trapping and relocation effort shall be conducted outside the breeding season (March 1 through August 31) to ensure any young are not inadvertently lost due to the destruction of the protective nest.					
Any nests within the construction zone shall be relocated to locations retained as undeveloped open space and individual woodrats released into their relocated nests. The trapping and relocation effort shall preferably be conducted within 7 days prior to grubbing and vegetation removal to prevent individual woodrats from moving back into the construction zone.					

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TABLE 1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
 Mitigation Measure BIO-1.4: Adequate measures shall be taken to avoid inadvertent take of Alameda whipsnake, California red-legged frog, and western pond turtle during construction. This shall be accomplished by taking the following steps: A qualified biologist shall be retained by the applicant to oversee construction and ensure that no inadvertent take of Alameda whipsnake, California red-legged frog, or western pond turtle occurs as a result of grading and other habitat modifications to the proposed development area on the project site. Prior to any grading or grubbing, the qualified biologist shall conduct a preconstruction survey to confirm absence of any Alameda whipsnake, California red-legged frog, or western pond turtle in the vicinity of construction and areas to be graded. The qualified biologist shall train the on-site monitor (such as the construction foreman) in how to identify Alameda whipsnake, California red-legged frog, and western pond turtle, and procedures to follow as part of construction monitoring. The qualified biologist shall visit the site at least once a week during initial construction and confer with the trained on-site monitor for at least one month until the construction area is stabilized and to confirm that the exclusionary fencing installed to prevent access into areas of disturbance has been properly maintained. 	Project applicant/ qualified biologist	Prior to grading or grubbing and during construction activities	County Planning Department/County Building Department/USFWS/ CDFW	Review survey reports and halt construction until adequate measures are taken to prevent dispersal of any individuals into the construction zone, as directed by the USFWS and CDFW	Once, prior to construction activities, and during scheduled construction site inspections
• All construction workers shall be trained regarding the potential presence of Alameda whipsnake, California red-legged frog, and western pond turtle prior to initiating any construction, and instructed that these species are to be avoided, that the foreman must be notified if any individuals are encountered, and that construction shall be halted until the qualified biologist arrives and makes a determination on possible presence.					
The qualified biologist shall oversee initial vegetation clearing and installation of wildlife exclusionary fencing to prevent Alameda whipsnake, California red-legged frog or western pond turtle from entering the construction area. The wildlife exclusionary fencing material and design shall meet with latest standards called for by the USFWS and CDFW, and shall include one-way funnels to allow for snakes and other small wildlife to exit the fenced construction zone. The exclusionary fencing shall be maintained and remain in place for the duration of construction until the qualified biologist has determined that it is no longer needed.					
Vegetation clearing shall be performed by hand and all slash shall be removed from the construction zone to remove any protective cover that could attract snakes and other wildlife. Operation of grading equipment shall not occur until vegetative cover has been completely removed from the fenced construction					

TABLE 1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
zone and the qualified biologist has performed a pre-grading survey to confirm absence of any Alameda whipsnake, California red-legged frog, or western pond turtle in the vicinity of construction and areas to be graded.					
• During the construction phase of the project, the qualified biologist or trained on-site monitor shall check to ensure that the exclusionary fencing is intact. The fenced construction area shall be inspected by the qualified biologist or trained on-site monitor each morning and evening of construction activities for possible presence of Alameda whipsnake, California red-legged frog, or western pond turtle. This includes checking holes, under vehicles and under boards left on the ground.					
During construction, any holes or trenches greater than 6-inches shall be covered with plywood or similar non-heat conductive materials and ramp larger trenches that cannot be readily covered at end of each work day to allow escape of any animals.					
 Use of monofilament plastic for erosion control or other practices shall be prohibited on the site to prevent possible entrainment. 					
All food waste shall be removed daily from the site to avoid attracting predators.					
If any western pond turtle is encountered within the proposed development area, construction shall be halted until the qualified biologist relocates the individual to secure habitat along Cull Creek.					
If any Alameda whipsnake or California red-legged frog are found within the proposed development area, construction shall be halted until they disperse naturally, and the monitor shall immediately notify the qualified biologist in charge and representatives of the USFWS and CDFW. Construction shall not proceed until adequate measures are taken to prevent dispersal of any individuals into the construction zone, as directed by the USFWS and CDFW.					
Subsequent recommendations made by the USFWS and CDFW necessary to avoid take of Alameda whipsnake and/or California red-legged frog shall be followed. Only an agency-approved biologist is allowed to handle or otherwise direct movement of Alameda whipsnake or California red-legged frog, and all others shall not handle or otherwise harass the animal(s). The qualified biologist and the on-site monitor shall be aware of all terms and conditions set by USFWS and CDFW on the project, if that becomes necessary.					
Mitigation Measure BIO-4: Measures shall be taken to prevent disruption of native wildlife movement opportunities and potential native wildlife nursery habitat. These shall include the following:	Project applicant	During operation	County Planning Department	Conduct site inspection	Prior to the issuance of occupancy permit

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TABLE 1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
Fencing which obstructs wildlife movement shall not cross the Cull Creek channel or form a barrier between the creek and the woodlands to the west of the proposed development area on the project site.					
Fencing to control and protect livestock shall be restricted outside the Cull Creek corridor away from the top of bank and shall allow for passage of wildlife around at least one side of the enclosed perimeter.					
 New lighting shall be carefully designed and controlled to prevent unnecessary illumination of natural habitat on the site, particularly the Cull Creek corridor and undeveloped woodlands to the west of the proposed development area. Lighting shall be restricted to building envelopes and the minimum level necessary to illuminate pathways, parking areas, and other outdoor areas. Lighting shall generally be kept low to the ground, directed downward, and shielded to prevent illumination into adjacent natural areas. Lighting from the Cafeteria/Mess Hall building shall be turned off after staff/employees leave the structure at the end of the day or evening, except the minimum necessary for security purposes. Dogs and cats shall be confined to the proposed development area or leashed and under voice control at all times to minimize harassment and loss of wildlife along the Cull Creek corridor and undeveloped woodlands to the west. All garbage, recycling, and composting shall be kept in closed containers and latched or locked to prevent wildlife from using the waste as a food source. 					
CULTURAL RESOURCES					
Mitigation Measure CULT-2: If archaeological resources are encountered during excavation or construction, construction personnel shall be instructed to immediately suspend all activity in the immediate vicinity of the suspected resources and the County and a licensed archeologist shall be contacted to evaluate the situation. A licensed archeologist shall be retained to inspect the discovery and make any necessary recommendations to evaluate the find under current CEQA Guidelines prior to the submittal of a resource mitigation plan and monitoring program to the County for review and approval prior to the continuation of any onsite construction activity.	Project applicant/ construction contractor/qualified archaeologist	During construction activities	County Building Department	Review and approve resource mitigation plan and monitoring program	As needed, if resources are unearthed
Mitigation Measure CULT-3: In the event a human burial or skeletal element is identified during excavation or construction, work in that location shall stop immediately until the find can be properly treated. The County and the Alameda County Coroner's office shall be notified. If deemed prehistoric, the Coroner's office would notify the Native American Heritage Commission who would identify a "Most	Project applicant/ construction contractor	During construction activities	County Building Department/County Coroner/NAHC	Review and approve treatment plan for the find	As needed, if remains are unearthed

TABLE 1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
Likely Descendant (MLD)." The archeological consultant and MLD, in conjunction with the project sponsor, shall formulate an appropriate treatment plan for the find, which might include, but not be limited to, respectful scientific recording and removal, being left in place, removal and reburial on site, or elsewhere. Associated grave goods are to be treated in the same manner.					
GEOLOGY AND SOILS					
Mitigation Measure GEO-6: In the event that fossils or fossil-bearing deposits are discovered during construction, excavations within 50 feet of the find shall be temporarily halted or diverted. The contractor shall notify a qualified paleontologist to examine the discovery. The paleontologist shall document the discovery, as needed, in accordance with Society of Vertebrate Paleontology standards, evaluate the potential resource, and assess the significance of the finding under the criteria set forth in CEQA Guidelines Section 15064.5. The paleontologist shall notify the appropriate agencies to determine procedures that would be followed before construction is allowed to resume at the location of the find. If the project proponent determines that avoidance is not feasible, the paleontologist shall prepare an excavation plan for mitigating the effect of the project based on the qualities that make the resource important. The plan shall be submitted to the County for review and approval prior to implementation.	Project applicant/ construction contractor/qualified paleontologist	During construction activities	County Building Department	Review and approve excavation plan	As needed, if fossils are unearthed
GREENHOUSE GAS EMISSIONS	-			-	-
Mitigation Measure GHG-1.1: The project applicant shall design and construct all new buildings to use all electric energy systems, meaning that electricity is the primary source of energy for water heating; mechanical; heating, ventilation, and air conditioning (HVAC) (i.e., space-heating); cooking; and clothes-drying. Prior to the issuance of building permits for new development projects within the project site, the project developer(s) shall provide documentation (e.g., site plans) to the County of Alameda Community Development Director or their designee, to verify implementation of the design requirements specified above in this mitigation measure. Prior to the issuance of the certificate of occupancy, the County shall verify implementation of the design requirements specified above.	Project applicant	Prior to the issuance of building permits	County Planning Department	Verify implementation of design requirements	Prior to the issuance of building permits and prior to the issuance of occupancy permit
Mitigation Measure GHG-1.2: Site plans submitted to the County shall identify parking stalls with electric vehicle (EV) capable charging stations consistent with the 2019 California Green Building Standards Code (CALGreen) voluntary Tier 2 nonresidential measures to provide four electric vehicle (EV) charging stations for the 15 proposed parking spaces, as seen on Table A5.106.5.3.2 of the 2019 CALGreen. Prior to the issuance of building permits for new development projects	Project applicant	Prior to the issuance of building permits	County Planning Department	Verify implementation of design requirements	Prior to the issuance of building permits and prior to the issuance of occupancy permit

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TABLE 1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
within the project site, the project developer(s) shall provide documentation (e.g., site plans) to the County of Alameda Community Development Director or their designee, to verify implementation of the design requirements specified above in this mitigation measure. Prior to the issuance of the certificate of occupancy, the County shall verify implementation of the design requirements specified above.					
GHG-3: Implement Mitigation Measures GHG-1.1a, GHG-1.1b, and GHG-1.2.	Project applicant	Prior to the issuance of building permits and prior to the issuance of occupancy permit	County Planning Department	Verify implementation of design requirements and purchase of carbon credits	Prior to the issuance of building permits and prior to the issuance of occupancy permit
TRIBAL CULTRURAL RESOURCES					
Mitigation Measure TCR-1.1: Implement Mitigation Measure CULT-2.	Project applicant/ construction contractor/qualified archaeologist	During construction activities	County Building Department	Review and approve resource mitigation plan and monitoring program	As needed, if resources are unearthed
Mitigation Measure TCR-1.2: Implement Mitigation Measure CULT-3.	Project applicant/ construction contractor	During construction activities	County Building Department/County Coroner/NAHC	Review and approve treatment plan for the find	As needed, if remains are unearthed
WILDFIRE					
Mitigation Measure WF-2: Prior to issuance of building permits, the applicant shall submit revised landscape plans as well as a vegetation management plan to the Alameda County Fire Department for review and approval. The project site plan shall be revised, if necessary, to conform to the revised landscaping plan and vegetation management plan.	Project applicant	Prior to the issuance of building permits	Alameda County Fire Department	Review and approve revised landscape plans and vegetation management plan	Prior to the issuance of building permits
Mitigation Measure WF-3a: Implement Mitigation Measure WF-2.	Project applicant	Prior to the issuance of building permits	Alameda County Fire Department	Review and approve revised landscape plans and vegetation management plan	Prior to the issuance of building permits

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Mitigation Measure	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
Mitigation Measure WF-3b: The proposed Fire Safety & Emergency Response Guide shall include education information regarding the wildfire risks associated with vehicle fires. In addition, signage shall be posted at or near the entrance to the project driveway to inform occupants of entering vehicles of current fire danger levels and the dangers of roadway sparks.	Project applicant	Prior to the issuance of occupancy permit	County Planning Department	Conduct site inspection	Prior to the issuance of occupancy permit

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