

**TAJIGUAS LANDFILL RECONFIGURATION AND
BARON RANCH RESTORATION PROJECT**

**FINAL SUBSEQUENT ENVIRONMENTAL IMPACT REPORT
(EIR No. 08EIR-00000-00007, SCH No. 2008021052)
MITIGATION MONITORING AND REPORTING PROGRAM**



**Santa Barbara County Public Works Department
Resource Recovery and Waste Management Division**

March 2008

**TAJIGUAS LANDFILL RECONFIGURATION AND BARON RANCH RESTORATION PROJECT
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Mitigation Requirements and Timing	Method of Monitoring ¹	Timing of Monitoring	Responsible Party
WATER RESOURCES			
<p>MM WR-3: Drainage Channel Maintenance Plan. To address potential sediment accumulation in the new concrete-lined drainage channel, RRWMD shall prepare and implement a Drainage Channel Maintenance Plan. <u>Plan Requirements and Timing:</u> The Maintenance Plan shall include a schedule for inspection and maintenance of the drainage channel and identify maintenance procedures for removing accumulated sediment and debris. The Plan shall be prepared prior to construction of the drainage and shall be incorporated into the existing landfill maintenance procedures.</p>	<p>Review of the Drainage Channel Maintenance Plan, visual inspections of the drainage channel</p>	<p>Monitoring will occur as specified in the Drainage Channel Maintenance Plan</p>	RRWMD
BIOLOGICAL RESOURCES			
<p>MM BIO-1(a): Restoration Plan Implementation. Compensatory mitigation for the loss of sensitive plant communities and for the loss of <i>Ceanothus megacarpus</i> chaparral and Venturan coastal sage scrub has been included in the Baron Ranch Restoration Plan, is included as an element of the proposed project description and would be implemented by the RRWMD. <u>Timing:</u> Implementation of the Baron Ranch Restoration Plan shall be initiated within one year of removal of sensitive vegetation communities associated with proposed landfill reconfiguration.</p>	<p>Site inspections/monitoring of the restored areas as specified in the Baron Ranch Restoration Plan. Monitoring reports generated as part of the Plan shall be maintained and made available to the regulatory agencies and public upon request.</p>	<p>Monitoring will occur as specified in the Baron Ranch Restoration Plan</p>	RRWMD

¹ Monitoring would be conducted by RRWMD's Environmental Engineering Planner, Project Engineer, landfill operations personnel, construction inspectors and/or qualified specialists under contract to RRWMD, as appropriate.

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<p>MM BIO-1(b): Minimize Impacts to Adjacent Habitats. To prevent inadvertent damage to sensitive habitats outside of the Reconfiguration Impact Area, the construction disturbance area shall be clearly delineated on the project construction plans and in the field by staking, fencing or equivalent methods. New ground disturbances and native vegetation removal shall be prohibited in a 50-foot setback from Pila Creek north of the northern limit of the proposed landfill reconfiguration drainage modification area (replaces Mitigation Measure BIO-2 from 01-EIR-05). <u>Plan Requirements and Timing:</u> The Reconfiguration Impact Area boundary shall be delineated on construction plans prior to requests for construction bids. Field delineation shall occur prior to beginning ground disturbing activities or vegetation removal.</p>	<p>Review of construction plans and field inspection of delineated boundaries of work areas</p>	<p>Construction plan review prior to requests for construction bids. Field delineation prior to beginning ground disturbing activities or vegetation removal. Monitoring of the work area throughout construction.</p>	<p>RRWMD</p>
<p>MM BIO-1(c): Control of Highly Invasive Plants. RRWMD shall monitor the project area and where feasible control infestations of plants identified as highly invasive by the California Invasive Plant Council. Invasive plants shall not be used in the erosion control hydroseed mix. <u>Plan Requirements and Timing:</u> An approved non-invasive hydroseed mix shall be included in the contractor specifications and in the Joint Technical Document prepared for the Solid Waste Facilities Permit.</p>	<p>Review of Joint Technical Document (JTD) and contractor specifications for inclusion of appropriate non-invasive hydroseed mixes. Field visits to project work area to monitor for presence of invasive plants.</p>	<p>Review of seed mixes prior to each seeding event. Periodic site visits to monitor for invasive species.</p>	<p>RRWMD</p>
<p>MM BIO-5(a): Replacement Water Source. A replacement water source (e.g., wildlife guzzler, trough or small open tank) shall be provided along Pila Creek north of the Reconfiguration Impact Area.</p>	<p>Photo document installation of trough. Periodic site inspection to ensure the water source is maintained</p>	<p>Water source to be installed prior to project-related loss of surface water in Pila Creek.</p>	<p>RRWMD</p>

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<p>MM BIO-5(b): Night Lighting. To minimize wildlife disturbance, night lighting used on the landfill shall be of low-intensity, low glare design, and shall be directed downward onto the work area and prevent spill-over into adjacent habitat areas. <u>Plan Requirements and Timing:</u> Landfill operating hours shall be included in the Joint Technical Document prepared for the amended Solid Waste Facility Permit.</p>	<p>Review of Landfill operating hours including lighting specifications included in the Joint Technical Document prepared for the amended Solid Waste Facility Permit. Periodic inspections when lighting occurs.</p>	<p>Review of JTD for inclusion of lighting specifications prior to waste filling in the reconfigured project area. Periodic site inspections during early morning or late afternoon landfilling operations that require lighting.</p>	<p>RRMWD</p>
<p>MM BIO-6: California Red-legged Frog Management Plan Implementation. To avoid, minimize and compensate for impacts to California red-legged frog, the RRWMD shall implement the project-specific California Red-legged Frog Management Plan. Implementation of this Plan shall be initiated prior to removal of the in-channel basins. <u>Timing:</u> Implementation of the Plan shall be initiated prior to the removal of the in-channel sedimentation basins.</p>	<p>Site visits to Arroyo Quemado as specified in the California Red-legged Frog Management Plan. Monitoring reports generated as part of the Plan shall be maintained and made available to the regulatory agencies and public upon request.</p>	<p>As specified in the California Red-legged Frog Management Plan.</p>	<p>RRWMD</p>
<p>MM BIO-7: San Diego Desert Woodrat Relocation. A survey for San Diego desert woodrats shall be conducted in mature chaparral prior to vegetation removal. In the event desert woodrats or desert woodrat nests are found within the Reconfiguration Impact Area, a relocation effort shall be conducted to allow the woodrats to move to suitable adjacent habitat. <u>Plan Requirements and Timing:</u> Immediately prior to clearing of native vegetation, the area scheduled for clearing shall be surveyed by a biologist with familiarity with desert woodrats. In the event woodrats or woodrat nests are observed a relocation program shall be developed. The relocation program shall include dismantling the nests immediately prior to the ground disturbing activities to encourage the woodrats to leave the area and establish new nests. If active nests are observed, dismantling of the nest shall occur after the breeding season.</p>	<p>The biologist shall submit a report to RRWMD regarding the result of the pre-disturbance surveys and of the relocation efforts following dismantling of the nests. RRWMD shall review survey and relocation reports generated by the project biologist.</p>	<p>Prior to vegetation removal.</p>	<p>RRWMD</p>

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<p>MM BIO-8: American Badger and Ringtail Surveys. Prior to any ground disturbing construction activities within the badger or ringtail natal denning period (March to August), the area scheduled for clearing and grubbing shall be surveyed for American badger and ringtail. If a badger or ringtail den is observed a qualified biologist shall monitor the den to determine if it is an active or an abandoned den. If the biologist determines that the den is not active, the biologist shall dismantle the den immediately and the construction activity can be initiated. If the biologist determines that the den is an active natal den, the biologist shall mark the den and establish a buffer (300 feet or as determined appropriate by the biologist based on field conditions) surrounding the active den. No ground disturbing work shall take place within this buffer. The biologist shall monitor the active den until the den is abandoned. Once abandoned, the den shall be filled/dismantled and construction activities can commence. <u>Plan Requirements and Timing:</u> The survey shall be conducted by a qualified biologist with familiarity with American badger and ringtail prior to clearing of native vegetation if the clearing occurs during the period from March to August.</p>	<p>RRWMD shall monitor for compliance in coordination with the CDFG. The biologist shall submit a report to RRWMD regarding the result of the pre-disturbance surveys and the relocation efforts following destruction of the den. RRWMD shall review survey and den monitoring reports generated by the project biologist</p>	<p>Prior to vegetation removal.</p>	<p>RRWMD</p>
<p>MM BIO-9: Two-Striped Garter Snake Relocation. Surveys for two-striped garter snakes at the landfill shall be conducted concurrent with California red-legged frog surveys and relocation activities. A qualified biologist shall relocate any two-striped garter snakes encountered to Arroyo Quemado. <u>Plan Requirements and Timing:</u> A Two-Striped Garter Snake Relocation Plan shall be developed prior to approval of contracts for the construction of the proposed landfill reconfiguration. The Plan shall include surveying methods, capture and handling methods, identification of suitable relocation sites, and post relocation monitoring requirements. Two-striped garter snakes shall be relocated prior to any project-related disturbance of habitat in Pila Creek.</p>	<p>Review and approval of the Two-Striped Garter Snake Relocation Plan, review of survey and relocation reports generated by the project biologist.</p> <p>Wildlife monitoring at Baron Ranch shall include monitoring for two-striped garter snake.</p> <p>Monitoring reports shall be maintained at RRWMD.</p>	<p>Prior to removal/disturbance of habitat within Pila Creek.</p>	<p>RRWMD</p>

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<p>MM BIO-10. Southwestern Pond Turtle Relocation. Surveys for southwestern pond turtles will be conducted concurrent with California red-legged frog surveys and relocation activities. A qualified biologist will relocate any southwestern pond turtles encountered to Arroyo Quemado. <u>Plan Requirements and Timing:</u> A Southwestern Pond Turtle Relocation Plan shall be developed prior to approval of contracts for the construction of the proposed landfill reconfiguration. The Plan shall include surveying methods, capture and handling methods, identification of suitable relocation sites, and post relocation monitoring requirements. Southwestern pond turtles shall be relocated immediately following removal of water from the in-channel basins, prior to filling of the basins.</p>	<p>Review and approval of the Southwestern Pond Turtle Relocation Plan, review of survey and relocation reports generated by the project biologist.</p> <p>Wildlife monitoring at Baron Ranch shall include monitoring for the Southwestern pond turtle.</p> <p>Monitoring reports shall be maintained at RRWMD.</p>	<p>Prior to removal of water from, and filling of, the in-channel basins.</p>	<p>RRWMD</p>
<p>MM BIO-11: Avoidance of Raptor Breeding Period. Clearing and grubbing of trees shall avoid the raptor breeding season (February 1 to August 15). If construction cannot be avoided, a raptor nest survey shall be conducted by a qualified biologist no earlier than 14 days and no later than 5 days prior to any initial tree removal or ground disturbance to determine if any raptor nests are present. If an active raptor nest is discovered during the survey, a buffer of 500 feet (or as determined by the biologist based on a field assessment) would be established around the tree. No construction activity may occur within this buffer area until a biologist determines that the fledglings are adequately independent from the adults. <u>Timing:</u> Surveys shall be conducted prior to tree removal or ground disturbance during the nesting period.</p>	<p>Review and approval of the construction schedule, review of breeding bird survey reports (as appropriate) generated by the project biologist.</p>	<p>Prior to tree removal.</p>	<p>RRWMD</p>

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<p><i>MM BIO-13: Avoidance of Migratory Bird Breeding Period.</i> Clearing and grubbing of trees shall avoid the migratory bird breeding season (February 1 to August 15). If construction cannot be avoided during this period, a nest survey shall be conducted by a qualified biologist no earlier than 14 days and no later than 5 days prior to any initial tree removal or ground disturbance to determine if any nests are present. If an active nest is discovered during the survey, a buffer of 200 feet (or as determined by the biologist based on a field assessment) would be established around the tree. No construction activity may occur within this buffer area until a biologist determines that the fledglings are adequately independent from the adults. <u>Timing:</u> Surveys shall conducted prior tree removal or ground disturbance during the nesting period.</p>	Review and approval of the construction schedule, review of breeding bird survey reports (as appropriate) generated by the project biologist	Prior to tree removal.	RRWMD
<p><i>MM BIO-14: Avoidance of bat maternity colonies.</i> Clearing and grubbing of trees and construction in areas of rock outcrops shall avoid the period from May 1 through August 15 to avoid impacts to bat maternity colonies. If construction activities cannot be avoided during this period, pre-construction surveys shall be conducted to determine presence or absence of bat maternity colonies. If active maternity colonies are found a 500 foot buffer (or an appropriate buffer as determined in the field) shall be established and no construction shall occur in this buffer area until a qualified biologist determines that the young are independent. <u>Timing:</u> Surveys shall conducted prior to tree removal or ground disturbance during the breeding period.</p>	Review and approval of the construction schedule, review of bat survey reports (as appropriate) generated by the project biologist	Prior to vegetation removal or ground disturbance.	RRWMD
CULTURAL RESOURCES			
<p><i>MM CR-1(a): Cultural Resources Orientation.</i> Prior to initiating ground disturbing activities associated the Baron Ranch Restoration Plan, a qualified archaeologist shall provide workers associated with earth-disturbing activities an orientation on cultural resources and directions as to what steps are to be taken if a find is encountered. <u>Timing:</u> The orientation shall occur prior to any ground disturbing activities at Baron Ranch.</p>	Written record of attendance at Cultural Resources orientation.	Prior to the initiation of ground disturbing activities in culturally sensitive areas at Baron Ranch.	RRWMD

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<p>MM CR-1(b): Monitoring. A professional archaeologist and Chumash representative shall be retained to monitor all project-related earth disturbance (micro-grading, or equivalent activities) on the east side of Arroyo Quemado Creek and along Drainage C on the west side of the creek, where BR-1 was recorded. The archaeologist shall have the authority to temporarily halt or redirect project construction in the event that potentially significant cultural resources are exposed. The Chumash monitor will be consulted by the archeologist when determining the need to halt or redirect work when cultural artifacts are discovered. Based on monitoring observations and the actual extent of project disturbance, the lead archaeologist shall have the authority to refine the monitoring requirements as appropriate (i.e., change to spot checks, reduce or increase the area to be monitored) in consultation with the RRWMD. The archaeologist shall spot check the other restoration-related earth disturbing activities to determine if they warrant additional monitoring. A report shall be prepared upon completion of monitoring and be provided to the RRMWD and the SCCIC. <u>Timing:</u> Archeological monitoring shall occur during ground disturbing restoration activities in areas of archeological sensitivity.</p>	<p>Visual monitoring by archaeologist and Native American monitor during earth disturbing restoration activities and review of monitoring reports,</p>	<p>During all ground disturbing activities at Baron Ranch in areas of archaeological sensitivity.</p>	<p>RRWMD</p>

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<p><i>MM CR-1(c): Evaluation and Protection of Discovered Resources.</i> In the event that archaeological resources are exposed during construction, all earth disturbing work within the vicinity of the find shall be temporarily suspended or redirected until a professional archaeologist has been retained to evaluate the nature and significance of the find pursuant to a Phase 2 investigation. The RRMWD shall be notified immediately of any such find. The find shall be appropriately documented, and avoided if deemed necessary by a qualified archaeologist.</p> <p>If avoidance of significant cultural resources identified during the Phase 2 investigation is not feasible, a Phase 3 mitigation program consistent with County Archaeological Guidelines and other recommendations of the archaeologist shall be implemented. A Chumash representative shall monitor any mitigation work associated with Native American cultural material.</p> <p>If human remains are unearthed, State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the NAHC.</p> <p><u>Plan Requirements and Timing:</u> The above measure shall be reflected in the contract specifications for the Project and shall be implemented if evidence of cultural resources are observed during project implementation.</p>	<p>Inclusion of cultural resource restrictions in the Baron Ranch Restoration Plan contract specifications, and site inspections by archaeologist and Native American Monitor during earth disturbance. Review and approval of plans and results of Phase 2 and/or Phase 3 investigations (if any).</p>	<p>During all ground disturbing activities within areas of archaeological sensitivity.</p>	<p>RRWMD</p>