APPENDIX D-2

MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS EXCERPT FROM CERTIFIED FEIR (DATED DECEMBER 2002)

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	4.1 LAND USE					
MM 4.1-1	The applicant or operator of the landfill shall establish a Citizen Environmental Review Board as required in Proposition C (Section 5Q). The applicant shall provide written verification to the County Department of Environmental Health after at least five public agencies have executed waste supply agreements with the operator.	Written verification	After at least five public agencies have executed waste supply agreements with the applicant	County Department of Environmental Health		
MM 4.1-2	In compliance with Section 3B of Proposition C, prior to commencement of operation of the landfill, the applicant shall either dedicate 1,313 acres of the site as permanent open space or create a permanent open space easement consisting of not less than 1,313 acres for long-term preservation of sensitive habitat and species, including coastal sage scrub, coast live oak woodlands, and cottonwood-willow riparian forests. The applicant shall convey or dedicate this land or easement in perpetuity to the satisfaction of the County of San Diego. The applicant shall provide a copy of the recorded fee conveyance or open space easement to the County Department of Environmental Health prior to commencement of operation.	Copy of recorded fee conveyance or open space easement	Prior to commencement of operation	County Department of Environmental Health		
MM 4.1-3	Before commencing any construction work related to the landfill, the applicant shall provide the Local Enforcement Agency with a copy of the executed agreement between Gregory Canyon, Ltd. and the San Diego County Water Authority providing for relocation and protection of the San Diego Aqueduct pipelines.	Copy of executed agreement	Prior to commencement of construction	County Department of Environmental Health		
	4.2 GEOLOGY AND SOILS					
MM 4.2-1	Before the liner is buttressed with refuse, the geosynthetic materials (i.e., plastic geomembranes and geotextile fabrics) shall be anchored at the head of the slope, and weighted throughout their extent with 20-pound sand bags on five-foot vertical spacing. If the liner system were to be damaged before it is weighted down by refuse, the applicant shall repair, and if necessary reconstruct, the liner. Repairs to the	Field observation	Prior to placement of waste As necessary during construction and operation	Regional Water Quality Control Board		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	geosynthetic materials will be completed and tested in accordance with regulations and project specifications. The RWQCB may be present to perform field observations at any time during the repair to ensure compliance.					
MM 4.2-2	Following significant seismic events, inspection of all facilities and structures, as well as surrounding natural features, will be performed, and necessary repairs will be made. If a tear in the liner is identified, repairs to the geosynthetic materials shall be completed immediately by placing a patch over the torn sections and fusing the materials by patch-welding. The operator shall perform vacuum testing on the patch welds to ensure compliance with the standards established for the original liner construction. Patching will be performed under strict construction quality assurance protocols used during original liner construction and the RWQCB may be present to perform field observations at any time during the repair to ensure compliance with applicable regulations.	Field observation and letter from operator if additional testing required	If tear in liner is identified	Regional Water Quality Control Board		
MM 4.2-3	A monitoring and maintenance program that includes annual topographic surveys to measure settlement, quarterly visual inspections to identify damage to the final cover or gas systems, and repair of these systems as required shall be implemented. The frequency of monitoring may be reduced after closure of the landfill. The gas collection system shall be flexible to accommodate settlement and allow for repair. The County of San Diego Department of Environmental Health will perform inspections to ensure compliance.	Letter from operator based on field verification	Annual—topographic surveys Quarterly—visual inspections	County Department of Environmental Health		
MM 4.2-4	Additional inspection of the rock masses surrounding the landfill will be completed every 5 years and/or after a significant earthquake event in order to identify new areas of potential rockfall concerns. The applicant's geotechnical consultant shall submit a letter to the County of San Diego Department of Environmental Health after any such inspection summarizing findings and necessary actions.	Letter from applicant's geotechnical consultant	Every five years and/or after a significant seismic event	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	4.3 HYDROGEOLOGY					
MM 4.3-1a	For the purpose of providing additional environmental assurance to the San Luis Rey Municipal Water District, in addition to the 13 monitoring wells surrounding the landfill, the water quality monitoring shall include at a minimum monitoring of two production wells (downgradient SLRMWD well #34 and upgradient Lucio well #2), upgradient alluvial monitoring well GMW-3, and downgradient alluvial monitoring well GLA-16 located within the project boundary).	Written report by applicant's hydrogeologist	Annually	San Luis Rey Municipal Water District		
MM 4.3-1b	If contamination is detected in any monitored well, the landfill operator shall be responsible for treatment and disposal of contaminated water. The landfill operator shall ensure that impacted water is treated to acceptable water quality standards, consistent with existing background water quality as provided in CCR Title 27, Section 20400 (a)(1). Adequate treatment shall be implemented to maintain background levels established by the RWQCB at the time of issuance of the waste discharge requirements.	Field inspection and monitoring by applicant's hydrogeologist	If contamination is detected	Regional Water Quality Control Board and San Luis Rey Municipal Water District		
MM 4.3-1c	The Applicant shall provide to the San Luis Rey Municipal Water District simultaneously with the submission to the RWQCB data collected from the groundwater monitoring program and shall provide to the District and its consultants split samples from any groundwater monitoring station upon reasonable notice given before the next regularly scheduled sampling to enable the District to verify the data collected.	Data prepared by applicant's hydrogeologist	Simultaneously with submission to Regional Water Quality Control Board	San Luis Rey Municipal Water District		

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MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.3-1d	Prior to the commencement of Phase I construction project grading, the Applicant shall provide the San Luis Rey Municipal Water District and the other parties to the Mitigation agreement with an irrevocable letter of credit in accordance with Section 9 and Exhibit C of the Mitigation Agreement. The Letter of Credit shall be automatically renewed annually.	Irrevocable letter of credit	Prior to commencement of Phase 1 construction grading	San Luis Rey Municipal Water District and other parties to the agreement [2]		
MM 4.3-1e	Prior to commencement of project operation, the Applicant shall establish, maintain, and administer a trust fund or third party custodial account for the benefit of the San Luis Rey Municipal Water District and the other parties to the Mitigation Agreement in accordance with Section 9 and Exhibit C of the Mitigation Agreement.	Verification of establishment of trust fund	Prior to commencement of operation	San Luis Rey Municipal Water District and other parties to the agreement		
MM 4.3-1f	As a condition of any water rights appropriation permit that may be granted by the State Water Resources Control Board, the Applicant shall reduce its diversion of water if the amount of groundwater available within the San Luis Rey Municipal Water District based upon water rights as they existed on April 15, 1996 within the boundaries defined in the Mitigation Agreement, is insufficient to meet the reasonable and beneficial needs of the District or any of the landowners within the District.	Written verification of water usage	If groundwater supply is deemed to be insufficient	San Luis Rey Municipal Water District and other parties to the agreement		
MM 4.3-1g	The Applicant shall identify and use an alternate water supply for construction and operation of the project if the amount of groundwater available within the San Luis Rey Municipal Water District is insufficient to meet the reasonable and beneficial needs of the District or any of the landowners within the District.	Written verification of alternate supply	If groundwater supply is deemed to be insufficient	San Luis Rey Municipal Water District		
MM 4.3-1h	If the construction, operation, or closure of the landfill causes degradation of the Pala Basin water or quality of foreign water stored in the Pala Basin for use within the Pala Basin so that it cannot be used for domestic uses and for irrigation, the Applicant shall be liable to the San	Testing as required by RWQCB after consultation	Reporting as required by RWQCB or SLRMWD	Regional Water Quality Control Board; San Luis Rey Municipal Water		

[2] The Agreement is between the San Luis Rey Municipal Water District, certain surrounding landowners, and Gregory Canyon, Ltd.

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	Luis Rey Municipal Water District to the extent of any degradation of the quality of Pala Basin water or the quality of foreign water stored in the Pala Basin caused by the construction, operation or closure of the landfill, including the cost of remediating the degradation of water quality attributable to the construction, operation or closure of the landfill, or if such remediation is not technologically or economically feasible, of providing an alternative water supply pending permanent remediation measures to the extent necessary to meet the reasonable needs for domestic and irrigation uses of the parties who signed the Mitigation Agreement. The applicant's liability with respect to foreign water shall be limited to remediation of a maximum of 17,694 acre-feet. Remediating the water quality of the Pala Basin or providing an alternative water supply, shall be part of the closure plan and part of the cost estimate required by 14 CCR § 17782.	with SLRMWD	Agreement	District		
MM 4.3-1i	The Applicant shall notify the San Luis Rey Municipal Water District and each of the parties to the Mitigation Agreement of any request to modify or to be released from the requirements of the closure plan or the post closure maintenance plan for the project.	Copy of request	At time of request	San Luis Rey Municipal Water District and other parties to SLRMWD Agreement		
MM 4.3-1j	The Applicant shall consult with the San Luis Rey Municipal Water District concerning the number, specifications, location, and frequency of data collection at the monitoring stations. The final decision regarding the need for and adequacy of the number, specifications, location of and frequency of data collection from the monitoring stations will be made by the RWQCB.	Discussion with SLRMWD	During discussions of monitoring with RWQCB	Regional Water Quality Control Board; San Luis Rey Municipal Water District		
	4.5 TRAFFIC AND CIRCULATION					
MM 4.5-1	The project applicant shall conduct a structural analysis of SR 76 and determine the structural requirements along SR 76 from the Rosemary's Mountain Palomar Aggregates project to the proposed landfill entrance to determine whether the existing foundation can accommodate anticipated heavy truck loads. The applicant shall obtain certification	Written report by applicant's traffic consultant	Prior to acceptance of solid waste Prior to acceptance of solid waste	Caltrans and County Department of Public Works		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	from Caltrans for adequate pavement surface to be enforced by the County Department of Public Works. This analysis shall not be extended west of the I-15 ramps if the Palomar Aggregates project does not go forward. Construction of the recommended pavement improvements, consistent with Caltrans requirements shall be implemented prior to operation of the landfill, if determined necessary, and fair share contribution made by the applicant.	Field inspection if improvements are necessary	of solid waste			
MM 4.5-2	At the commencement of operation, the project applicant shall make a fair-share contribution for the addition of an eastbound left turn lane and westbound through lane on the I-15 overcrossing.	Deposit receipt	At the commencement of operation	Caltrans and County Department of Public Works		
MM 4.5-3	The Project applicant shall make an irrevocable offer of dedication for right-of-way to 108 feet in width within the Project boundary for the widening of SR 76 to four lanes per the County of San Diego Circulation Element, including a designated bike route. In addition, the project applicant shall provide a fair share contribution for the cost to provide four lanes on SR 76 from the western boundary of the project site to the project access road.	Dedication of easement and deposit receipt	Request by Caltrans	Caltrans and County Department of Public Works		
	4.6 NOISE AND VIBRATION					
MM 4.6-1a	The applicant shall monitor noise levels at the property lines adjacent to residential uses in the first year of the initial construction and whenever the construction operation changes. If noise levels exceed 62.5 dBA L_{eq} at the property line, the applicant shall implement some or all of the following measures to reduce the noise levels to below 62.5 dBA L_{eq}: • Build temporary noise barriers or berms between construction activities and residences. Such barriers or berms shall be disassembled when construction is complete. Sound barriers made of plywood would likely be sufficient, given the topography of the site and adjacent area. Other design parameters (e.g., height, length, and location) for these temporary noise barriers or berms shall be determined by a qualified noise expert. • Reduce the amount or size of construction equipment. For	Monitoring at southern property line by applicant's noise expert to determine noise levels at nearby residences	Quarterly during initial construction and within 30 days after any change in construction phases	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	example, equipment with smaller engines could be used. This would be feasible for most types of equipment. However, the geology of the site may dictate the minimum size of certain types of rock moving or other equipment. If the 62.5 dBA L_{eq} threshold is not exceeded, no action beyond monitoring shall be necessary.					
MM 4.6-1b	All construction activities shall be limited to between the hours of 7:00 A.M. and 6:00 P.M., Monday through Friday and 8:00 A.M. to 5:00 P.M. on Saturday as required under Proposition C. Construction shall not occur on Sundays or federal holidays.	Field inspection	During construction	County Department of Environmental Health		
MM 4.6-1c	The applicant shall ensure that construction equipment and trucks are properly tuned and have noise muffling equipment that meets or exceeds applicable EPA standards.	Field inspection	During construction	County Department of Environmental Health		
MM 4.6-2a	The operator shall ensure that the tire shredding and rock crushing shall not occur at the same time.	Field inspection	During operation	County Department of Environmental Health		
MM 4.6-2b	Tire shredding operations shall be monitored the first time such activity is conducted on-site to ensure that noise levels do not exceed the residential and wildlife thresholds. If the noise levels exceed either threshold, the applicant shall implement noise abatement measures which may include such measures as equipment silencers, enclosures, noise baffling, and/or berms. If the thresholds are not exceeded, no additional action beyond monitoring shall be required.	Field inspection	During operation	County Department of Environmental Health		
MM 4.6-3	Noise verification shall be conducted specifically for the flare station prior to commencement of its operation to ensure compliance with the 62.5 dBA L_{eq} and 60 dBA L_{eq} at the property line and for wildlife habitat, respectively.	Noise analysis prepared by applicant's noise specialist	Prior to installation of the flare station	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.6-4a	Unless determined infeasible by Caltrans, the project applicant shall provide a fair share contribution for the cost to install a sound wall in the right-of-way along SR 76 to reduce noise levels from cumulative traffic at the existing residences.[3]					
	4.7 AIR QUALITY & AIR TOXIC HEALTH RISKS					
MM 4.7-1	The construction contractor shall implement the following dust control measures: • The construction contractor shall use water trucks to keep all areas of vehicle movement sufficiently damp to prevent the raising of dust by travel in these areas. • All unpaved haul roads shall be watered every two hours, unless the road surface appears visibly damp. • The construction contractor shall wet down the site in the late morning and after work is completed for the day. • At least once per day, the construction contractor shall wet down non-active construction areas that have not been reseeded to minimize windblown dust. • As soon as feasible, the construction contractor shall re-establish groundcover on areas disturbed by construction—through seeding and watering those areas that will not be disturbed for extended periods (e.g., two months or more). • The construction contractor shall reduce traffic speeds on all unpaved road surfaces to no more than ten miles per hour. In addition, to reduce vehicle exhaust emissions: • The construction contractor shall maintain construction equipment engines by keeping them tuned in accordance with manufacturers specifications. • The construction contractor will only utilize California diesel fuel	Field verification	Field inspection during construction	San Diego Air Pollution Control District		

[3] A sound wall would also reduce the project-related increase in traffic noise levels.

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MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	in heavy duty vehicles. • The construction contractor will only employ construction equipment that meets California Exhaust Emission Standards for Post-1996 Off-Road Compression-Ignition Engines.					
MM 4.7-2	The landfill operator shall implement the following dust control measures: • The landfill operator shall use water trucks to keep all areas of vehicle movement sufficiently damp to prevent the raising of dust by travel in these areas. • The landfill operator shall wet down the site in the late morning and after work is completed for the day. • At least once per day, the landfill operator shall wet down non-active construction areas that have not been reseeded to minimize windblown dust. • The landfill operator shall reduce traffic speeds on all onsite, unpaved road surfaces to no more than ten miles per hour. In addition, to reduce vehicle exhaust emissions: • The landfill operator shall maintain trucks and construction equipment engines by keeping them tuned in accordance with manufacturers specifications. • The landfill operation shall only utilize California diesel fuel in heavy-duty vehicles. • The landfill operator shall only employ construction equipment that meet California Exhaust Emission Standards for Post-1996 Off-Road Compression-Ignition Engines.	Field verification	Field inspection during operation	San Diego Air Pollution Control District		
	4.9 BIOLOGICAL RESOURCES					
MM 4.9a:	A pre-construction meeting shall take place with a qualified biologist and construction personnel. The biologist shall explain the access restrictions on site, the importance of remaining within construction zones, the sensitivity of the habitats and species on site, and shall	Letter from applicant's contractor(s) verifying	Prior to commencement of construction	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	explain the potential consequences of violating the access restrictions and impacting biological resources outside the construction zones. Any accidental impacts to sensitive habitat that occur outside the designated impact area shall be mitigated at a 3:1 ratio. A letter from the applicant's biologist and contractor(s) verifying receipt of biological information shall be provided to the County Department of Environmental Health prior to commencement of construction.	receipt of biological information				
MM 4.9-1a:	Impacts to coastal sage scrub and coastal sage scrub/chaparral shall be mitigated at a minimum ratio of 2:1 through on-site preservation of coastal sage scrub and coastal sage scrub/chaparral in dedicated open space. A total of 445.8 acres shall be required for mitigation, including 88.2 acres of coastal sage scrub/chaparral and 357.6 acres of coastal sage scrub. To satisfy the coastal sage scrub/chaparral requirement, coastal sage scrub shall be utilized. The mitigation acres shall be preserved in perpetuity as on-site open space.	Verification of recordation of open space easement on site encompassing the coastal sage scrub and coastal sage scrub/ chaparral mitigation areas	Prior to commencement of brushing or clearing of coastal sage scrub and coastal sage scrub/ chaparral or at a point in time determined appropriate through consultation with the applicable regulatory agencies	County Department of Environmental Health and Department of Planning and Land Use		
MM 4.9-1b:	Impacts to southern willow scrub and mule fat scrub shall be mitigated by the creation of in-kind habitats on the landfill site in dedicated open space. A mitigation ratio of 4:1 shall be used. A total of 10.4 acres shall be required for mitigation including 9.6 acres of southern willow scrub and 0.8 acre of mule fat scrub. The habitat creation can occur in the locations for riparian habitat creation shown on Exhibit 4.9-5.	Preparation of mitigation plan by applicant's biologist. Letter approval of plan by resource agencies.	Prior to commencement of clearing or grading of the southern willow scrub and mule fat scrub or as otherwise determined in consultation with resource agencies	U.S. Fish and Wildlife Service, Army Corps of Engineers, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		

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MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	Habitat creation of southern willow scrub and mule fat scrub shall occur at the ratio specified herein, such that "no net loss" of habitat is achieved, in areas that would not be affected by noise levels equal to or greater than 60 dB(A) L_{eq} and that are part of the dedicated open space on site. Conditions to be met shall include the preparation of a detailed mitigation plan, final landscape construction documents, ACOE/CDFG permit approval, and installation, maintenance, and long term monitoring of the mitigation areas. The mitigation plan shall be developed and submitted to the ACOE and CDFG for approval as part of the project permitting process. The implementation of the mitigation shall be prior to or concurrent with construction or as otherwise determined in consultation with the resource agencies.	Preparation of mitigation plan by applicant's biologist. Letter approval of plan by resource agencies. Field verification of plan implementation by applicant's biologist	Prior to issuance of grading permit or as otherwise determined in consultation with resource agencies	U.S. Fish and Wildlife Service, Army Corps of Engineers, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-1c:	Impacts to 0.8 acre of open channel shall be mitigated through implementation of the habitat enhancement plan described in MM 4.9-18 to restore habitat in the San Luis Rey River watershed on site.	Preparation of a habitat enhancement plan by the applicant's biologist	After residences and dairy removed	U.S. Fish and Wildlife Service, Army Corps of Engineers, California Department of Fish and Game, County Department of Environmental Health and Department of Planning and Land Use		
MM 4.9-1d:	Impacts to 27.0 acres of coast live oak woodland (some of which includes Engelmann oaks and is state jurisdictional habitat) shall be mitigated at a 3:1 ratio through on-site preservation of 30.0 acres of in-kind habitat in dedicated open space off-site acquisition of a minimum of 51.0 acres of in-kind existing coast live oak woodland or a combination of preservation/acquisition and 5.9 acres of habitat creation to ensure a "no net loss" of state jurisdictional habitat. Within the 51-acre off-site mitigation parcel, the species-specific mitigation for Engelmann oaks shall be met, if possible (see MM 4.9-2). If an increase in on-site preservation occurs, the amount of off-site habitat	Copy of recorded open space easement on site and for a parcel(s) off site encompassing the oak woodland mitigation	Prior to commencement of clearing or grading of the coast live oak woodland or as otherwise determined in consultation with the County	California Department of Fish and Game, County Department of Environmental Health and Department of Planning and Land Use		

TABLE 10-1
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MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	acquisition shall be reduced accordingly. If creation is required, the amount of off-site habitat acquisition shall be reduced accordingly. The off-site acquisition shall occur in an unincorporated area of San Diego County. The habitat creation shall be implemented to the satisfaction of the County and CDFG in accordance with Section 1600 of the State Fish and Game Code. A conservation easement shall be placed across the off-site mitigation area to permanently protect the resource. If possible, individual oak trees shall be salvaged from impact areas and transplanted to appropriate open space habitat on site. The implementation of the mitigation shall be prior to or concurrent with construction or as otherwise determined in consultation with the County and CDFG.	mitigation area(s). If on site habitat creation is implemented, preparation of mitigation plan by applicant's biologist. Letters of approval of plan by resource agencies. Field verification of plan imple-mentation by applicant's biologist				
MM 4.9-1e:	Impacts to 0.2 acre of native perennial grassland shall be mitigated at a ratio of 2:1 by the acquisition of 0.4 acre of in-kind habitat in an unincorporated area of San Diego County, and a conservation easement shall be placed across the mitigation area to permanently protect the resource. Acquisition of grassland habitat shall occur as part of the acquisition of coast live oak woodland habitat (MM 4.9-1d) or Engelmann oak habitat (MM 4.9-2), if possible. The implementation of the mitigation shall be prior to or concurrent with construction or as determined in consultation with the County.	Copy of recorded open space easement off site encom-passing native perennial grassland. Preparation of mitigation plan by applicant's biologist. Letter approval of plan by resource	Prior to or concurrent with construction or as determined in consultation with the County	County Department of Environmental Health and County Department of Planning and Land Use		

TABLE 10-1
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MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
		agencies. Field verification of plan implementation by applicant's biologist				
MM 4.9-1f:	Temporary construction fencing shall be erected under the supervision of a qualified biologist outside the delineated boundary of dedicated open space where it interfaces with impact areas and permanent fencing marked with signs shall be installed around the mitigation areas. Where impact areas are adjacent to coast live oak woodland, fencing shall be erected outside the canopy area at a distance of 1.5 times the canopy radius of the outer trees. This fencing shall be erected prior to commencement of brushing or grading activities. The fencing (for example, strand wire or split rail) shall restrict human and equipment access but shall allow for wildlife movement.	Letter from applicant's biologist/field verification	Prior to commencement of brush clearing or grading	County Department of Environmental Health		
MM 4.9-2:	A 3:1 minimum replacement acreage (based on canopy area) of Engelmann oak trees shall be preserved within the same acquisition parcel for coast live oak woodland, if possible (see MM 4.9-1d). Otherwise, a separate acquisition of Engelmann oak trees at a 3:1 minimum replacement acreage shall be required in an unincorporated area of San Diego County. This acreage shall then be subtracted from the coast live oak woodland mitigation requirement (MM 4.9-1d) to avoid duplicate mitigation. A conservation easement shall be placed across the off-site mitigation area to permanently protect the resource. The implementation of the mitigation shall be prior to or concurrent with construction or as otherwise determined in consultation with the County.	Letter from applicant's biologist	Prior to commencement of construction in the area of Engelmann oak or at a point in time as determined appropriate through consultation with the County of San Diego	County Department of Environmental Health and County Department of Planning and Land Use		

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MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.9-3a:	In addition to the riparian habitat creation in MM 4.9-1b, implementation of a habitat enhancement program described in MM 4.9-18 shall be undertaken to mitigate impacts to arroyo southwestern toad riparian breeding habitat.	See MM 4.9-1b and MM 4.9-1d	See MM 4.9-1b and MM 4.9-1d	See MM 4.9-1b and MM 4.9-1d		
MM 4.9-3b:	The removal of toad riparian breeding habitat from riparian vegetation clearing and channel excavation for the bridge shall occur from October through December to minimize potential impacts to breeding adults (including potential sedimentation impacts to toad eggs) and dispersing juveniles.	Construction contract addressing timing	Prior to commencement of construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-4:	The project preserves approximately 243 acres of sandy upland habitat adjacent to toad breeding habitat on site in addition to approximately 970 acres of other upland habitats. This preservation, in combination with the habitat enhancement program described in MM 4.9-18 would mitigate impacts to the loss of potential toad upland habitat.	Field verification by applicant's biologist	Field verification prior to commencement of bridge construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-5a:	The construction zone for the bridge shall be fenced with exclusion fencing to prevent toad access to the construction zone. The fencing shall be a silt-screen type barrier comprised of a minimum 24-inch high fence with the remainder (minimum 12 inches) anchored firmly against the ground. The fence may be buried if necessary to exclude toad access. The fence locations shall be identified by a qualified biologist and adjusted as necessary.	Letter from applicant's biologist based on field verification	Prior to commencement of construction of bridge	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Depart-		

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				ment of Planning and Land Use		
	Exclusion fencing shall be monitored daily by a qualified biologist, and maintained in its original condition by construction personnel for the entire length of the construction period.	Written report from applicant's biologist monthly	Daily monitoring	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health, County Department of Planning and Land Use		
MM 4.9-5b:	Pre- and post-exclusion fencing surveys within the construction zone for the bridge shall be conducted for arroyo southwestern toads by a biologist permitted by the USFWS to handle the toad. Prior to construction commencement, a minimum of three surveys shall be conducted by this biologist following installation of the fencing. Daily surveys shall be conducted each morning prior to construction activity. Any toads found shall be relocated to appropriate similar habitat outside project impact areas and in dedicated open space.	Written report from biologist permitted by U.S. Fish and Wildlife Service to handle toad	Prior to construction, minimum of 3 surveys following installation of the fencing, then daily surveys before construction begins	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-5c:	Exclusion fencing shall be installed along both sides of the access road for its entire length (except where sides of bridge act as barrier) as part of access road construction. The same exclusion fencing shall also wrap around the northern edge of the facilities area and continue east and south around the 1.8-acre desiltation basin. The fencing shall continue until the topography becomes too steep or rocky on the east side of the landfill footprint as determined by a qualified biologist. The fencing shall be of a corrugated metal or other similar durable material and shall be a minimum of 24 inches high.	Field verification	At the time of access road construction	County Department of Environmental Health or County Department of Planning and Land Use		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION	
					INITIALS	DATE
MM 4.9-5d:	A minimum of three surveys shall be conducted by a biologist permitted by the USFWS to handle the arroyo southwestern toad following installation of the exclusion fencing along the access road and prior to access road use. Any toads found shall be relocated to appropriate similar habitat outside project impact areas and in dedicated open space.	Written report from biologist permitted by U.S. Fish and Wildlife Service to handle toad	Following installation of exclusion fencing and prior to access road use	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-5e:	A minimum of three surveys shall be conducted by a biologist permitted by the USFWS to handle the arroyo southwestern toad following installation of exclusion fencing around the facilities area and desiltation basin as described in MM 4.9-5c. Up to three additional surveys shall be conducted if favorable temperature and moisture conditions for toad activity have not already occurred during the first three surveys. Any toads found shall be relocated to appropriate similar habitat outside project impact areas and in dedicated open space.	Written report from biologist permitted by U.S. Fish and Wildlife Service to handle toad	Following installation of exclusion fencing	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-5f:	At least one road undercrossing shall be installed in the fill beneath the access road north and south of the river. The design of the undercrossings shall be approved by the USFWS.	Field verification	At the time of access road construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.9-5g:	Exclusion fencing of the material and design described in MM 4.9-5c shall be installed on the north side of the haul road to Borrow/Stockpile Area A. The fencing shall be installed prior to initial project construction and shall be removed when initial project construction is complete, and the haul road is no longer in use. The exclusion fencing shall be re-installed prior to the use of Borrow/Stockpile Area A, which begins again in approximately year 25. The fencing shall be removed once the landfill is completely closed and the haul road is no longer in use.	Field verification	Prior to construction and during inspection by Department of Environmental Health	County Department of Environmental Health or County Department of Planning and Land Use		
MM 4.9-5h:	A minimum of three surveys shall be conducted by a biologist permitted by the USFWS to handle the arroyo southwestern toad following installation and re-installation of the exclusion fencing along the access road to Borrow/Stockpile Area A prior to its use. Up to three additional surveys shall be conducted during the use period if favorable temperature and moisture conditions for toad movement have not already occurred during the three original surveys. Any toads found shall be relocated to appropriate similar habitat outside project impact areas and in dedicated open space.	Written report from biologist permitted by U.S. Fish and Wildlife Service to handle toad	Following installation and re-installation of exclusion fencing along the access road to Borrow/Stockpile Area A	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-5i:	Exclusion fencing of the material and design described in MM 4.9-5c shall be installed along both sides of the low-flow crossing until the road connects with the haul road described in MM 4.9-5g. The fencing shall be installed during initial project construction and shall be removed when initial project construction is complete, and the crossing is no longer in use. A minimum of three surveys shall be conducted by a biologist permitted by the USFWS to handle the arroyo southwestern toad following installation of the fencing, and daily surveys shall be conducted each morning prior to use of the low-flow crossing. Any toads found shall be relocated to appropriate similar habitat outside project impact areas and in dedicated open space.	Field verification	During initial project construction (3 surveys following installation of fencing and daily prior to use of low-flow crossing) and after crossing is no longer in use.	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.9-6:	The USFWS (1999c) has indicated in the Final Recovery Plan for the species that short-term negative effects to individual toads from such activities may be offset by the long-term positive effects of implementing such a habitat enhancement program. Therefore, the habitat enhancement plan described in MM 4.9-18 shall be implemented. The final plan shall include precautions where possible to avoid impacts to the arroyo southwestern toad.	Preparation and acceptance of habitat enhancement plan	Prior to construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-7:	Prior to final design, the bridge abutment design specifications shall indicate that gaps in the riprap be filled with concrete.	Approval of final design plans	Final design submittal	County Department of Environmental Health, County Department of Planning and Land Use		
MM 4.9-8:	The northernmost tower shall be replaced during the period of July through October to avoid the golden eagle breeding season.	Construction contract addressing timing	Prior to commencement of construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-9a:	Access to the Gregory Canyon nesting site(s) shall be restricted to eagle specialists and researchers conducting monitoring.	Field verification	Prior to commencement of construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
				Department of Planning and Land Use		
MM 4.9-9b:	Prior to ground disturbance, a pre-construction survey for the eagle pair shall be conducted to determine if and where the eagles are nesting on site. Weekly monitoring of the eagle pair shall be conducted by an eagle specialist during the breeding season (December through May) to confirm the eagle pair is exhibiting reproductive behavior patterns, such as nest building. After one year of construction activity, if the monitoring determines that the eagles have abandoned the site, the applicant shall create a habitat acquisition fund for purchase and preservation of off-site known or potential golden eagle nesting habitat or shall purchase an equivalent amount of golden eagle nesting habitat to be included in the MSCP Preserve. The amount of funding or habitat purchase shall be negotiated with the County.	Written report by biologist, payment of fees, if applicable	Prior to construction weekly during breeding season, and one year after construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-9c:	Initial landfill construction activity less than 2,000 feet from the eagle's nest shall begin as close to the end of the eagle breeding season in June to allow the eagle pair on site to become conditioned to the activity prior to the next breeding season starting in December.	Field verification	Prior to commencement of construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-10:	The southernmost tower shall be moved during the period of June through November or at any time when the nest is not active. Likewise, any raptor nest removal shall only occur when the nest is inactive. A qualified biologist shall determine whether or not a raptor nest is active.	Construction contract addressing timing and field verification	During June through November or when nest is inactive	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
				Department of Planning and Land Use		
MM 4.9-11a:	Removal of any riparian habitat shall only occur from October through December to avoid the breeding seasons of these bird species and to minimize potential impacts to the arroyo southwestern toad.	Preparation of mitigation plan by applicant's biologist. Letters of appropriate planning resource agencies	Prior to commencement of clearing or grading of riparian habitat	U.S. Fish and Wildlife Service, Army Corps of Engineers, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-11b:	Impacts to vireo and flycatcher habitat shall be mitigated through riparian habitat creation as described under MM 4.9-1b. The habitat enhancement described under MM 4.9-18 would also benefit these species.	Preparation of mitigation plan by applicant's biologist. Letters of appropriate planning resource agencies	Prior to commencement of clearing or grading of vireo and flycatcher habitat or as otherwise determined in consultation with resource agencies	U.S. Fish and Wildlife Service, Army Corps of Engineers, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-11c:	The project applicant shall provide funding for cowbird trapping along the San Luis Rey River on the project site for a period of five years from initial landfill operation.	Written report prepared by the applicant's biologist or the land manager of the 1,313 acres of open space	Annually	California Department of Fish and Game, U.S. Fish and Wildlife Service		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.9-12a:	Daily noise monitoring by a qualified acoustician shall be conducted between March 15 and September 15 during initial construction to verify that noise levels are below 60 dB(A) L_{eq} in vireo and flycatcher habitat. If the 60 dB(A) L_{eq} is exceeded, the acoustician shall work with the construction contractor to make operational changes and/or barriers designed by the acoustician shall be installed prior to March 15 or immediately if during the breeding season, to reduce noise levels during the breeding season. Weekly noise monitoring shall occur following operational changes and/or installation of barriers to ensure their effectiveness. If ineffective, the acoustician shall work with the construction contractor to make additional operational changes or to install other barriers that would reduce noise to less than 60 dB(A) L_{eq}.	Noise analysis prepared by applicant's noise specialist	Daily between March 15th and September 15th during initial construction. If noise barriers are required, weekly monitoring to ensure their effectiveness	County Department of Environmental Health		
MM 4.9-12b:	The low-flow crossing shall only be used between September 15 and March 15. Use of the crossing could occur outside of that time period if daily monitoring by a qualified biologist determines that vireos and flycatchers have not yet arrived on site or have migrated out of the area early, or if operational changes can be made and/or barriers designed by an acoustician can be installed prior to March 15 to reduce noise levels to less than 60 dB(A) L_{eq} in the vireo and flycatcher habitat. Daily noise monitoring shall be conducted in accordance with MM 4.9-12a and noise reduction measures contained in MM 4.9-12a shall be implemented, if necessary.	Field verification by biologist. Noise analysis prepared by applicant's noise specialist	Daily between September 15th and March 15th	County Department of Environmental Health		
MM 4.9-12c:	Bridge construction shall only occur between September 15 and March 15 unless daily monitoring by a qualified biologist during the breeding season determines that vireos and flycatchers have not yet arrived on site or have migrated out of the area early or if operational changes can be made and/or barriers designed by an acoustician can be installed prior to March 15 to reduce noise levels to less than 60 dB(A) L_{eq} in vireo and flycatcher habitat. Daily noise monitoring shall be conducted in accordance with MM 4.9-12a and noise reduction measures contained in MM 4.9-12a shall be implemented, if necessary.	Field verification by biologist. Noise analysis prepared by applicant's noise specialist	Daily between September 15th and March 15th	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.9-13:	Mitigation activities shall only occur between September 15 and March 15 unless operational changes can be made and/or barriers designed by an acoustician can be installed prior to March 15 to reduce noise levels to less than 60 dB(A) L_{eq} in vireo and flycatcher habitat. Daily noise monitoring shall be conducted between March 15 and September 15 to verify that the measures are effective. If the 60 dB(A) L_{eq} is exceeded, the acoustician shall work with the contractor to make additional operational changes or to install additional barriers that would reduce noise to less than 60 dB(A) L_{eq}.	Field verification by biologist. Noise analysis prepared by applicant's noise specialist	Daily between September 15th and March 15th	County Department of Environmental Health		
MM 4.9-14a:	A total of 4.8 acres of vireo and flycatcher habitats (0.2 acre of cottonwood-willow riparian forest, 0.8 acre of mule fat scrub, and 3.8 acres of southern willow scrub) shall be created on the landfill site in dedicated open space in an area that would not be affected by noise levels equal to or greater than 60 dB(A) L_{eq} (Exhibit 4.9-5) in conjunction with that created on site for direct impacts as described in MM 4.9-1b and MM 4.9-1c.	Preparation of reserved area by applicant's biologist and noise testing and report to verify less than 60 dB	Prior to construction	U.S. Fish and Wildlife Service, Army Corps of Engineers, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-14b:	The project applicant shall purchase and conserve in perpetuity 4.6 acres of off-site vireo and flycatcher habitat that would not be affected by noise levels of 60 dB(A) L_{eq} or greater as a result of project-generated or cumulative traffic. A conservation easement shall be placed across the off-site mitigation area to permanently protect the vireo and flycatcher habitat. The implementation of the mitigation shall be prior to or concurrent with construction or as otherwise determined in consultation with the County.	Preparation of reserved area by applicant's biologist and noise testing and report to verify less than 60 dB	Prior to construction	U.S. Fish and Wildlife Service, Army Corps of Engineers, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.9-15a:	A temporary 12-foot high wall or berm shall be constructed along the northern edge of Borrow/Stockpile Area A outside the vireo/flycatcher breeding season (March 15 to September 15) and prior to the use of Borrow/Stockpile Area A. The barrier can be removed once topography provides the necessary noise barrier to reduce noise levels in the habitat during the breeding seasons to less than 60 dB(A) L_{eq}.	Construction contract addressing timing and noise analysis	Prior to use of Borrow/ Stockpile Area A	County Department of Environmental Health		
MM 4.9-15b:	Noise monitoring shall be conducted weekly for up to one month by a qualified acoustician to verify that operational noise levels are below 60 dB(A) L_{eq} in vireo and flycatcher habitat. If noise levels equal or exceed 60 dB(A) L_{eq}, a.16-foot high permanent noise wall shall be installed prior to the vireo breeding season (March 15 to September 15, includes flycatcher breeding season) or immediately if during the breeding season. If noise levels exceed 60dB(A) L_{eq} during the breeding season, operational changes shall be made to reduce noise levels to less than 60 dB(A) while the noise wall is being constructed. The noise wall shall be constructed east of the knoll between the internal haul road and the top of slope for the facilities area to block truck noise emanating into the habitat.	Noise analysis prepared by applicant's noise specialist	During operations weekly, up to one month March 15th to September 15th, in necessary	County Department of Environmental Health		
MM 4.9-16:	Throughout the life of the project, access routes shall be restricted to existing roads, and entry into non-impact areas shall be restricted by the landfill operator. Areas not directly impacted by the project shall be posted with signs precluding access due to habitat sensitivity. A public education program shall be developed by a qualified biologist and shall be implemented to inform landfill staff and visitors about access restrictions and the sensitivity of habitats on site.	Field verification. Preparation and submittal of public education program	Throughout life of project	County Department of Environmental Health		
MM 4.9-17a:	Control of invasive, exotic plant species shall occur as described in the habitat enhancement plan presented in MM 4.9-18 and shall include the channel excavation area associated with construction of the bridge.	Preparation and acceptance of Habitat Enhancement Plan	Prior to construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
				Department of Planning and Land Use		
MM 4.9-17b:	Temporary and permanent slopes shall be revegetated with native plant species to inhibit the growth of non-natives.	Preparation and acceptance of Habitat Enhancement Plan	Prior to construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		
MM 4.9-18:	The project applicant shall implement a habitat enhancement plan to improve the San Luis Rey River watershed on site as described below and detailed in Appendix L of this document. Beyond the mitigation obligation associated with compensating for direct and indirect project impacts to vegetation communities, the project applicant for the Gregory Canyon Landfill shall be required to implement a habitat enhancement program for improvements to the San Luis Rey River watershed. In addition to the proposed open space dedication (1,313 acres), the project applicant shall restore approximately 88 acres of upland and 13 acres of riparian area within the portion of the San Luis Rey River corridor contained on site (Exhibit 4.9-5). The restoration will likely be phased and not occur all at one time. The habitat enhancement program shall focus on the restoration of riparian and upland habitats within the San Luis Rey River floodplain on site above and beyond the project's direct mitigation obligations for vegetation community impacts. The San Luis Rey River has been identified as one of the most easily restorable rivers in southern California (ACOE 1981). This portion of the program shall consist of	Preparation and acceptance of Habitat Enhancement Plan	Prior to construction	U.S. Fish and Wildlife Service, California Department of Fish and Game, County Department of Environmental Health and County Department of Planning and Land Use		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	the restoration of lost and/or damaged habitat and water quality caused by the long-term agricultural use of the property and the removal of highly invasive, exotic plant species. The project applicant is proposing to remove the existing Verboom dairy operations and most structures and all equipment associated with the Verboom and Lucio dairies from the site in concert with the initial construction of the landfill. Under this enhancement program, man-made berms and weed seed banks in the river's watershed shall be excavated to restore more historic river flows and invasive, non-native plant species would be replaced with native plantings. The excavation shall be focused on bringing the ground elevations down to level that would connect the areas hydrologically with the existing groundwater system and to create a series of terraces that taper into the existing upland habitat. The excavation would be done in a manner that would prevent adverse effects on upstream and downstream properties. All upland and drier riparian areas shall be planted with tree species native to the site and hand-seeded to initiate native plant re-establishment. Weed control and monitoring shall be implemented regularly during the first five years of each phase of restoration to prevent the re-establishment of non-native plant species. The goal of the restoration shall be to provide breeding and upland habitat for endangered species and widen the vegetative buffer around the riparian corridor present on site. The dedicated open space on site, including the restored river corridor, shall be managed with a financial contribution provided by the project applicant. The project applicant shall work with the USFWS and the CDFG to identify a qualified conservancy or other non-profit organization to be responsible for implementing long-term management activities for the restored river. The type of management activities shall depend upon the condition of the site, the resources present, and the funds available to manage those resources. Management activities shall include restrictions on vehicular and human access through the installation of fencing and signs, control of exotic species [e.g., brown-headed cowbirds and giant reed (*Arundo donax*)], control of illegal dumping, and monitoring endangered species populations.					

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	4.10 PALEONTOLOGICAL RESOURCES					
MM 4.10-1a	Prior to issuance of the grading permit by the County, the applicant shall retain a qualified paleontologist to monitor excavations on site. Initially monitoring shall occur eight hours per week (e.g., two four-hour days or four two-hour days) during earthmoving activities in the Quaternary Alluvium. (This earthwork is to occur during construction of the bridge footings and roads and the excavation of the borrow sites.) The contractor shall notify the qualified paleontologist at the time such activities will be initiated so that a monitor can be present. (A paleontological monitor is defined as an individual who has experience in the collection and salvage of fossil materials. The paleontological monitor shall work under the direction of a qualified paleontologist.) The applicant shall submit a letter to the Department of Environmental Health identifying the monitor. Weekly letters shall be prepared by the monitor and provided to the Department of Environmental Health.	Letter to County identifying paleontologist and paleontological monitor prior to grading; Field observation initially eight hours per week with weekly letter prepared by paleontological monitor	During construction of bridge footings and roads and the excavation of the borrow sites	County Department of Environmental Health		
MM 4.10-1b	If unique fossils are discovered, the applicant shall have a qualified paleontologist (or paleontological monitor) recover them. If an extended salvage period is required, the paleontologist (or paleontological monitor) shall be allowed to temporarily direct, divert, or halt grading to allow recovery of fossils in a timely manner. If necessary, the paleontologist shall be allowed to set up a screen-washing operation to process the matrix to bulk sample selected geologic beds. If unique fossils are found, the applicant's paleontologist shall provide a letter to the Department of Environmental Health documenting the find and procedures followed on-site.	Letter from applicant's paleontologist based on field observation	After recovery of unique fossils, if any are found	County Department of Environmental Health		
MM 4.10-1c	The applicant shall have a qualified paleontologist clean, repair, and catalog any fossil remains collected during monitoring and salvage operations. Prepared fossils, along with copies of all pertinent field notes, photos, and maps, shall be deposited (as a donation) in a	Review of preserved materials	If fossil remains are found on site	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	scientific institution with permanent paleontological collections such as, the San Diego Natural History Museum. Donation of the fossils shall be accompanied by financial support from the applicant for initial specimen storage. If fossil remains are found, the Department of Environmental Health shall review the preserved materials.					
MM 4.10-1d	The applicant shall have a qualified paleontologist prepare regular biannual progress reports during earth moving activities in the Quaternary Alluvium (this earthwork to occur during construction of the bridge footings and roads and the excavation of the borrow sites) and a final summary report that outline the results of the resources mitigation program. These reports shall include discussions of the methods used, stratigraphic section(s) exposed, fossils collected, and the significance of recovered fossils. These reports shall be submitted to the Department of Environmental Health.	Written reports by applicant's paleontologist	Biannual and final summary report	County Department of Environmental Health		
	4.11 ARCHAEOLOGICAL & CULTURAL RESOURCES					
MM 4.11-1	Prior to project activity occurring at the cemetery, the applicant shall remove the cemetery by excavation of burials and rebury in a nearby active cemetery. Exhumation and re-interment of all remains from this cemetery shall be conducted in accordance with Section 7050.5 of the California Health and Safety Code.	Written verification from the applicant's archaeologist	Prior to project activity occurring in the area	County Department of Environmental Health		
MM 4.11-2	It is possible that additional cultural resources could be discovered during grading and construction. Therefore, prior to issuance of a grading permit, the applicant shall retain a professional, registered archaeologist who is approved by the County and, if appropriate, a Native American monitor, who is selected from a list of suitable candidates obtained from the Native American Heritage Commission. The archaeologist and, if appropriate, the Native American monitor shall implement a monitoring and data recovery program to the satisfaction of the County's Director of Planning and Land Use, to mitigate potential impacts to previously undiscovered archaeological	Requirements of monitoring program noted on construction documents; copy of letter to site workers; written report by applicant's archaeologist	Prior to issuance of grading permit; during construction	County Department of Planning and Land Use		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	resources. The monitoring program shall consist of the monitor(s) attending a pre-grading meeting with the contractors to explain and coordinate the requirements of the program. In addition, the archaeologist and, if appropriate, the Native American monitor shall monitor initial grading and ground surface preparation on all previously undisturbed areas. The requirements of the monitoring program shall be noted on the final grading or improvement plan and all site workers shall be informed in writing by the project archaeologist of the restrictions regarding disturbance and removal of cultural resources as well as procedures to follow should a resource deposit be detected.					
	In the event of notification by the project archaeologist that a potentially significant or unique find has been unearthed, grading operations shall cease immediately in the area of the find until the geographic extent and scientific value of the resource can be reasonably verified. Isolates and clearly non-significant deposits shall be minimally documented in the field. If significant archaeological materials are discovered, the County archaeologist shall be consulted and the resources shall be recorded and recovered using standard professional archaeological methods. Once recovered, such resources shall be cleaned, catalogued, and permanently curated according to current professional repository standards. Construction in the affected area shall not resume until the archaeologist determines it to be appropriate.	Consultation with County archaeologist, as needed; written report by applicant's archaeologist	During construction	County Department of Planning and Land Use		
	In the event that human remains are discovered, other than those located at the Higgins Family Cemetery, during the monitoring program, there shall be no further excavation or disturbance of the site, nor shall there be any disposition of such human remains, other than in accordance with the procedures and requirements set forth in Section 7050.5 of the California Health and Safety Codes. If Native American burial sites are discovered, the project shall comply with the Public Resources Code 5097.98 and CEQA Guidelines Section 15064.5(e).	Written report by applicant's archaeologist	During construction	County Department of Planning and Land Use		
	Upon completion of earth disturbing activities and prior to operation of the project, the archaeological monitor shall prepare a report	Written report by applicant's	Prior to operation of the project	County Department of Planning and Land		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	documenting the findings. This report shall be completed to the satisfaction of the County's Director of Planning and Land Use.	archaeologist		Use		
MM 4.11-3	Prior to commencement of any construction activities, the applicant shall have a registered, professional archaeologist who is approved by the County and, if appropriate, a Native American monitor who is selected from a list of suitable candidates obtained from the Native American Heritage Commission provide measures to ensure the avoidance of impacts to known significant/CR-eligible cultural sites that could be indirectly affected by the proposed project (including: CA-SDI-683; CA-SDI-744B/12,584 A and B; CA-SDI-12,585; CA-SDI-14,609; and CA-SDI-14,610H). Such measures, which would serve to prohibit access to these sites, may include fencing, barricades, or remote monitoring devices. These devices shall be installed by the applicant prior to disturbance in the area of the above sites.	Mitigation monitoring program prepared by applicant's archaeologist	Prior to commencement of construction	County Department of Planning and Land Use		
	In addition, the archaeologist and, if appropriate, the Native American monitor shall implement a monitoring program to the satisfaction of the County's Director of Planning and Land Use. The requirements of the monitoring program shall be clearly noted on the final grading or improvement plan and all site workers shall be informed in writing of the restrictions and procedures of the program. In addition, the monitor(s) shall attend a pre-grading meeting with the contractors to explain and coordinate these requirements as they pertain to these significant/CR-eligible cultural sites.	Requirements of monitoring program noted on construction drawings; copy of letter to site workers	Prior to construction	County Department of Planning and Land Use		
	In addition, the archaeologist and, if appropriate, the Native American monitor shall monitor initial grading and ground surface preparation on all previously undisturbed areas. Concurrent to the monitoring of grading, the monitor(s) shall identify and evaluate whether adverse impacts (e.g., erosion, looting, vandalism, etc.) have occurred at any of these sites.	Field observation by applicant's archaeologist; written report by applicant's archaeologist	During construction activities; approval of written report prior to operation of the project	County Department of Planning and Land Use		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	In the event that monitoring reveals deteriorating conditions at any of the significant/CR eligible cultural sites, the County archaeologist shall be consulted and the appropriate site preservation and/or data recovery efforts shall be implemented. Such efforts could include implementation of erosion control measures, capping of the affected portion of the site, or planting of native vegetation. If the monitor(s) determine that deterioration has resulted from landfill operations, a change in operational methods may be required.	Consultation with County archaeologist, if necessary; written report by applicant's archaeologist	During construction	County Department of Planning and Land Use		
	Upon completion of earth disturbing activities, the archaeological monitor shall prepare a report. The report shall include the results of the fieldwork and all appropriate laboratory and analytical studies that were performed in conjunction with any resource excavation that may have been performed. Such analyses could include radiocarbon dating, hydration and sourcing analysis, and mass spectrometer and thin sectioning, as appropriate. The report shall be submitted to the County's Director of Planning and Land Use for review and approval prior to operation of the project.	Written report by applicant's archaeologist	Prior to operation of the project	County Department of Planning and Land Use		
MM 4.11-4	The Research Requirements and Research Design for CA-SDI-745, included in Appendix N of this Final EIR, shall be followed. The Research Requirements and Research Design guides the analysis and curation of resources already recovered from Locus A and outlines the steps necessary for the completion of additional fieldwork and monitoring at Locus F. Included therein is the requirement for artifacts to be processed and curated according to current professional repository standards and transferred, including title, to an appropriate curation facility within San Diego County. The applicant is also required to pay the necessary fees for permanent curation. A report documenting the analysis and fieldwork results shall be prepared and submitted to the satisfaction of the County's Director of Planning and Land Use.	Written report by applicant's archaeologist	Prior to acceptance of waste	County Department of Planning and Land Use		
MM 4.11-5	A complete analysis of materials collected from CA-SDI-14,611H, the Maggie Lovell Homestead, shall be conducted under the supervision of a registered, professional archaeologist. These artifacts shall be	Written report by applicant's archaeologist	Prior to acceptance of waste	County Department of Planning and Land Use		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	processed and curated according to current professional repository standards and shall be transferred, including title, to an appropriate curation facility within San Diego County. The applicant shall pay the necessary fees for permanent curation. A report documenting the analysis results shall be prepared and submitted to the satisfaction of the County's Director of Planning and Land Use prior to operation of the project.					
MM 4.11-6a	Increased intervals of water application (every three hours) on access roads, stockpiles, and cleared areas will mitigate impacts from dust to a less than significant level. Landscaping shall be installed between the landfill and CA-SDI-313/4,356 will serve as a dust screen and will reduce visual impacts created by fugitive dust and landfill operations. The landscaping should be installed a sufficient distance from the project site so as not to create a fire hazard.	Field inspection	At time of field inspection	County Department of Environmental Health		
MM 4.11-6b	In addition to mitigation measures MM 4.11-6a, the applicant shall have a professional rock art conservator provide baseline data and periodically assess the condition of Medicine Rock. The method for monitoring shall be developed in consultation with the Pala Band of Mission Indians and approved by County DEH. Baseline data shall be collected prior to any construction activity on the project site. Because the archaeological site is not located on the project site or on the Pala Reservation, implementation of the measure would require approval by the adjacent property owner.	Field inspection	Prior to any construction activities on site; and once every six months during construction	County Department of Environmental Health		
	4.12 ETHNOHISTORY & NATIVE AMERICAN INTERESTS					
MM 4.12-1a	Prior to commencement of operation of the landfill and as partial fulfillment of MM 4.1-2, the applicant shall either dedicate the portion of the site east of the landfill footprint and relocated SDG&E easement including the western slopes and the top of Gregory Mountain, as permanent open space or execute and convey a permanent open space easement over this area.	Execution of easement	Prior to operation of landfill	County Counsel and County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.12-1b	Prior to commencement of operation of the landfill the applicant shall execute and record an access easement to the Pala Band of Mission Indians from the western boundary of the land owned by the Pala Band of Mission Indians to the summit of Gregory Mountain. The access easement shall grant the Pala Band of Mission Indians the right to walk or hike only within the access easement area.	Recordation of access easement	Prior to operation of landfill	County Counsel and County Department of Environmental Health		
MM 4.12-1c	Should the Pala Band agree, the applicant shall, upon commencement of operation of the landfill, pay to the Pala Band of Mission Indians a fixed dollar amount as determined below. Such amount shall be used by the Pala Band to implement measures to enhance and improve access to Gregory mountain from the Pala Reservation. Such measures may include, but are not limited to, a new footpath, clearing of an existing footpath, or the marking of new footpath trail as determined by Pala in its sole discretion. Such dollar amount shall be equal to the estimated cost of restoring the footpath that previously existed from the eastern base of Gregory Mountain to the top of the mountain. This estimate shall be obtained by the applicant from a company experienced in restoring footpaths.	Letter from applicant	Prior to operation of landfill	County Department of Environmental Health		
MM 4.12-1d	In addition to the construction of the trail, should the Pala Band agree, the applicant shall provide funding as needed for the annual maintenance of the trail from the eastern base to the top of the mountain during the operational life of the landfill.	Letter from applicant	Annual	County Department of Environmental Health		
MM 4.12-1e	The applicant shall postpone landfilling activities on the western slope of Gregory Mountain above the existing San Diego Gas & Electric transmission line for as long as its practically possible.	Letter from applicant	Annual	County Department of Environmental Health		
MM 4.12-2a	The applicant shall apply water on access roads, storage piles, and cleared areas in greater intervals, such as every three hours, during high wind periods to reduce the dust generated by vehicles.	Field inspection	At the time of field inspections	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.12-2b	The applicant shall install landscaping between the landfill operations and Medicine Rock to create a dust screen. The landscape screen shall include shrubs and trees, such as manzanita and ceanothus.	Field inspection	Prior to operation of landfill	County Department of Environmental Health		
MM 4.12-3	The applicant shall monitor noise levels at the ridgeline during the relocation of the SDG&E transmission towers. If noise levels exceed 62.5 dBA L_{eq} at the ridgeline, the applicant shall implement some or all of the following measures to reduce the noise levels to below 62.5 dBA L_{eq}: • Build temporary noise barriers or berms between construction activities and the ridgeline. Design parameters (e.g., height, length, and location) for these temporary noise barriers or berms shall be determined by a qualified noise expert. • Reduce the amount or size of construction equipment. For example, equipment with smaller engines could be used. If the 62.5 dBA L_{eq} threshold is not exceeded, no action beyond monitoring shall be necessary.	Noise monitoring and written report by applicant's noise expert	During relocation of the transmission towers	County Department of Environmental Health		
MM 4.12-4	The project shall mitigate for the loss of ethnobotanical plants in southern willow scrub, mulefat scrub, cotton-willow riparian forest, and native perennial grassland by the creation of in-kind habitats on the landfill site that include ethnobotanical species listed in Appendix O. This revegetated habitat shall be incorporated into the Habitat Enhancement Plan and/or the dedicated open space areas. Before the mitigation plans for these areas are finalized, the Tribe would have the opportunity to provide input concerning the selection of specific ethnobotanical resources. In addition, the Tribe shall be given the opportunity to provide input regarding the location of the in-kind habitats to ensure that tribal members have adequate access to the areas.	Letter from applicant's biologist	Prior to construction activities	County Department of Environmental Health		
	4.13 AESTHETICS					
MM 4.13-1	As required by Proposition C, an overall conceptual landscape treatment plan shall be prepared by a licensed landscape architect and a qualified	Landscape plan	Prior to operation of landfill	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	biologist incorporating the detailed measures for each project element as indicated in MM 4.13-2 through MM 4.13-10. The conceptual landscape plan is shown in Exhibit 4.13-18. The plan shall address the timing of the installation of each element. The elements shall be implemented so as to provide the necessary screening but also to allow efficient operation of the project. The landscape treatment plan shall be approved by the Department of Environmental Health prior to the operation of the landfill.					
MM 4.13-2a	Existing trees and shrubs along SR 76 shall be saved and supplemented by like species and other fast growing trees to create a naturally landscaped transportation corridor through the property, where appropriate to screen the landfill. All on-site highway frontage along the south side of SR 76, shall be planted with a minimum 20-foot wide screen of native or indigenous trees and shrub species The applicant's landscape architect shall verify to the County Department of Environmental Health in writing within two years of commencement of the landfill operation that this measure has been implemented.	Letter from applicant's landscape architect	Two years after commencement of operation of landfill	County Department of Environmental Health		
MM 4.13-2b	Major tree groupings and transplants as well as native revegetation and rock outcrop placement shall be completed along the edges of the landfill. The placement shall not be too far out from the sides of the landfill, taking into consideration the drainage and settlement of the landfill. A transitional blending of the flat landfill face shall be undertaken along the bottom and perimeter edges where it meets the existing terrain. Large boulders and trees could be placed to resemble the ribbon of oak woodland impacted by the landfill. Tree groupings could be placed in groves below existing swales that contain oaks and sycamores. This extension of natural vegetation communities would help break the geometric lines of the landfill and would help the face blend with the surrounding hillsides. The applicant's landscape architect shall verify to the County Department of Environmental Health in writing after implemented as determined in the landscape plan.	Letter from applicant's landscape architect	After installation as determined in landscape plan	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.13-2c	Permanent slopes shall be stabilized with appropriate native plant seed mix and container stock around the edges. In some cases, where phasing may result in changes and/or transitions to the slopes, more temporary erosion control techniques could be utilized. The County Department of Environmental Health shall field verify implementation of this measure.	Field verification	At time of field inspections	County Department of Environmental Health		
MM 4.13-2d	Any landfill slope that would remain unchanged beyond one full year shall be hydroseeded or revegetated. Revegetation shall take into account the contrast, color, and texture so that it can blend back into the local setting. The County Department of Environmental Health shall field verify implementation of this measure.	Field verification	At time of field inspections	County Department of Environmental Health		
MM 4.13-2e	Drainage and methane extraction structures and pipes shall be painted or be made of materials that fit into the local color environment and that match adjacent textures. Painting of the structures, pipelines and other facilities associated with surface drainage, subsurface drainage and methane gas control would help blend them into the background of the areas that they are traversing. At the time of installation of the drainage and methane extraction structures and pipes, the operator shall provide a letter to the San Diego Air Pollution Control District and the County Department of Environmental Health indicating that the measure has been implemented.	Letter from landfill operator	At time of installation of drainage and methane extraction structures and pipes	San Diego Air Pollution Control District and County Department of Environmental Health		
MM 4.13-2f	Brow ditches shall be constructed with outside bench lips slightly higher than inside edges. Culverts and other pipelines connecting brow ditches shall be painted to blend with landfill slopes. Integral or stained color shall be used on all brow ditches. A natural brown, beige or sand colored staining shall be used so that the ditch will not contrast with adjacent colors. Painting of miscellaneous structures shall use a variety of colors that match the revegetation patch and soil color that the pipeline is going through. At the time of installation of the brow ditches, culverts and pipelines, the operator shall provide a letter to the County Department of Environmental Health indicating that the measure has been implemented.	Letter from landfill operator	At time of installation of brow ditches, culverts and pipelines	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.13-2g	The applicant shall explore the feasibility of obtaining a landscape easement along SR 76 to the west of the site on the adjacent property or the Caltrans right-of-way as shown on Exhibit 4.13-17 of the Final EIR. The easement, if obtained, shall be planted with a screen of native or indigenous trees and shrub species to create a naturally landscaped transportation corridor similar to the screening on the project site. The landscaping shall provide screening of the landfill for drivers traveling west along SR 76 towards the site.	Written correspondence from applicant demonstrating good faith effort	Prior to commencement of operation	County Department of Planning and Land Use		
MM 4.13-3	The benches and lifts shall be graded to minimize the significant landform quality impact. Blending of created landforms with adjacent landforms can be achieved by manipulating the landform to resemble or meld with its surroundings, planting to create the pattern resembling the adjacent vegetation matrix and its colors, and incorporating boulders into the final grades to create the rocky texture of the surrounding hillsides. The County Department of Environmental Health shall field verify implementation of this measure.	Field verification	At time of field inspections	County Department of Environmental Health		
MM 4.13-4	Areas within public view, such as along SR 76, adjacent to the facility area or within the abandoned Lucio Dairy parcels, shall be revegetated to mitigate for the loss of visual resources in accordance with the landscape plan (MM 4.13.1). The revegetation shall contain both oak woodland habitats and riparian plantings. Wherever possible, boulders and rock outcrops should be relocated from disturbed areas to replanted areas. The plan shall incorporate and compliment the mitigation for biological resources (Section 4.9). The revegetation shall be implemented within two years after the commencement of the landfill operation.	Landscape plan	Two years after commencement of operation of the landfill	County Department of Environmental Health		
MM 4.13-5	Large riparian trees along with the associated understory found within these riparian zones shall be planted along the access road and bridge to screen the project elements and the excavation in accordance with the landscape plan (MM 4.13.1). The plan shall incorporate and compliment the mitigation for biological resources (Section 4.9). Landscaping shall be installed immediately after completion of the	Letter from applicant's landscape architect	Immediately after completion of the access road and bridge	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	access road and bridge and implementation of this measure shall be verified in writing to the County Department of Environmental Health by the applicant's landscape architect.					
MM 4.13-6a	In consultation with the landfill engineer, rock outcrops removed from the landfill footprint shall be placed in strategic locations around the facilities area. Implementation of this measure shall occur after completion of the facilities area or in accordance with the landscape plan (MM 4.13.1). Completion of this measure shall be verified in writing to the County Department of Environmental Health by the applicant's landscape architect.	Letter from applicant's landscape architect	After completion of facilities area or in accordance with the landscape plan (MM 4.13-1)	County Department of Environmental Health		
MM 4.13-6b	Areas adjacent to the ancillary facilities area and next to the water tank shall be planted with mature trees in major tree groupings to screen visual access to those structures. In addition, disturbed slopes shall be revegetated with native species. These concepts and the timing of implementation shall be incorporated into the landscape plan (MM 4.13.1). Completion of this measure shall be verified in writing to the County Department of Environmental Health by the applicant's landscape architect.	Letter from applicant's landscape architect	After completion of facilities area or in accordance with the landscape plan (MM 4.13-1)	County Department of Environmental Health		
MM 4.13-6c	The facilities and miscellaneous structures shall be painted or be made of materials that fit into the local color environment and shall also match adjacent textures. Implementation shall be field verified by the County Department of Planning and Land Use—Building Division after construction of the facilities area.	Building permit/ Plan review	After construction of facilities area	County Department of Planning and Land Use—Building Division		
MM 4.13-7	Landscape plans shall include vegetative screening on the side slopes and in areas below the crest to hide the grading for the western desilting basin. Landscaping shall be installed after completion of the western desilting basin. The applicant's landscape architect shall verify in writing to the County Department of Environmental Health that this measure has been implemented.	Letter from applicant's landscape architect	After installation of western desilting basin	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.13-8a	Landform screening shall be implemented, including major tree groupings, at the edges of the Borrow/Stockpile Area A to help block the views of the area. The Department of Environmental Health shall field verify the implementation of this measure after commencement of operation.	Letter from applicant's landscape architect	After closure of Borrow/Stockpile Area A	County Department of Environmental Health		
MM 4.13-8b	The project grading plan shall include contouring of landforms to help blend the general forms of land masses on part of the lower stockpile areas. Gentle grading and curvilinear shapes shall be used to help blend top and side slopes in with the natural topography. Large, undifferentiated, flat slopes shall be avoided. The Department of Environmental Health shall field verify the implementation of this measure after commencement of operation.	Field verification	At the time of field inspections after commencement of operation	County Department of Environmental Health		
MM 4.13-8c	After initial construction, Borrow/Stockpile Area A shall be revegetated. Contrast, texture, and color matching shall be achieved in all revegetation. All areas shall be replanted with native plant materials that will decrease the amount of value and color contrast with surrounding areas. The Department of Environmental Health shall field verify the implementation of this measure after commencement of operation.	Field verification	At the time of field inspections after closure of Borrow/Stockpile Area A	County Department of Environmental Health		
MM 4.13-9a	The project grading plan shall include contouring of landforms to help blend the general forms of land mass on part of the upper stockpile areas. Gentle grading and curvilinear shapes shall be used to help blend top and side slopes in with the natural topography. Large, undifferentiated, flat slopes or pads shall be avoided. Leading edge landforms shall be created within the first two years of the creation of Borrow/Stockpile Area B to help block the views of the working face of the stockpile. The Department of Environmental Health shall field verify the implementation of this measure after commencement of use of Borrow/Stockpile Area B.	Field verification	At the time of field inspections after commencement of use of Borrow/Stockpile Area B	County Department of Environmental Health		
MM 4.13-9b	If a stockpile landform were to remain beyond one full year, the area shall be hydroseeded or other revegetation efforts undertaken. Contrast,	Field verification	Annually upon commencement of	County Department of Environmental Health		

TABLE 10-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR PROJECT IMPACTS (CONTINUED)

MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	texture, and color matching shall be achieved in all revegetation. All areas shall be replanted with native plant materials that will decrease the amount of value and color contrast with surrounding areas. Temporary revegetation of slopes shall also be used to reduce contrast, insofar as the proper colors and textures are utilized in the plant selection process. The Department of Environmental Health shall annually field verify the implementation of this measure after commencement of use of Borrow/Stockpile Area B.		use of borrow/stockpile areas			
MM 4.13-9c	Landform screening shall be planted, including major tree groupings, at the edges of the Borrow/Stockpile Area B to screen the area from view. After installation as determined in the landscape plan (MM 4.13.1), the applicant's landscape architect shall verify implementation of this measure in writing to the Department of Environmental Health.	Letter from applicant's landscape architect	After installation as determined in landscape plan	County Department of Environmental Health		
MM 4.13-10	In consultation with SDG&E, the applicant shall minimize the pad areas needed for the relocated powerline towers. Related cut slopes shall be permanently revegetated and landform grading techniques shall be used to blend the pads in with adjacent landforms. The cut face of these pads shall be sculpted to allow rock outcrops to remain and be prominent. Additional rock outcrops shall be placed where they do not interfere with the access and maintenance requirements of the towers. The applicant's landscape architect shall provide a letter to the County Department of Environmental Health verifying that these measures shall be implemented prior to the relocation of the towers.	Letter from applicant's landscape architect	Prior to relocation of transmission towers	SDG&E and County Department of Environmental Health		
MM 4.13-11	If the landfill face is disturbed to repair any surface cracking, settlement, and/or surficial slumping, the area shall be recontoured to match the approved contours and the area shall be revegetated immediately, using the approved plant palette in the Final Closure Plan (see Table 3-5 of the EIR for a plant species list), after the completion of the repair work.	Letter from applicant's engineer and landscape architect	After the completion of the repair work	County Department of Environmental Health		

TABLE 10-2
PROPOSITION C MITIGATION MONITORING AND REPORTING PROGRAM

PROPOSITION C MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	LAND USE					
MM4.1.C5A	*The solid waste facilities shall remain open for the receipt of refuse a minimum of eight (8) hours a day, six (6) days a week, excepting those holidays observed by County-owned landfills.*[4]	Field Verification	At the time of field inspections	County Department of Environmental Health		
MM 4.1.C5B	*Solid waste operation shall occur only between the hours of 7:00 AM and 6:00 PM, Monday through Friday, and 8:00 AM and 5:00 PM on Saturday unless different hours are established by the Integrated Waste Management Board.*[5] *For the purposes of this mitigation measure "solid waste operations" shall include the receipt, handling, processing, and/or disposal of solid waste or recyclable materials; cover operations; site grading and/or excavation, including blasting and rock crushing; and heavy equipment operation. Other site activities such as the operation of gas and leachate collection and treatment systems, remedial activities required by a regulatory agency, maintenance within the maintenance yard, and activities conducted in a completely enclosed building shall not be limited to these hours of operation.*	Field Verification	At the time of field inspections	County Department of Environmental Health		
MM 4.1.C5Q	*A Citizen Environmental Review Board (the "Board") shall be established by agreement between the Applicant and the cities or other governmental entities agreeing to supply waste to the Project. The members of such Board shall be appointed by each such city or entity and shall be individual citizens who are not employees or officials of such city or entity. The Board shall have the authority to inspect and review all reports submitted by the Project to any other regulatory agency and to make recommendations to any such regulatory agency with respect to the operation of the Project, including any enforcement*	Letter from applicant	After commencement of operation when at least five (5) public agencies execute waste supply agreements with the operator	County Department of Environmental Health		

[4] Effective October 31, 1998, there are no County-owned landfills. Since this measure was contained in Proposition C, it is provided verbatim.

[5] Although stated this way in Proposition C, the Local Enforcement Agency, which is County DEH, will be the agency regulating and enforcing hours of operation.

TABLE 10-2
PROPOSITION C MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)

PROPOSITION C MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	actions the Board may deem appropriate. The Board shall establish an environmental review team consisting of qualified personnel to monitor the operations of the landfill which team shall have reasonable access to the landfill during all hours of operation of the landfill.					
	Geology and Soils					
MM 4.2.C5H	*All structures located at the Gregory Canyon site shall be designed by a qualified engineer to withstand the maximum probable earthquake, to avoid potential impacts associated with earthquakes and ground shaking.*	Plan review	Prior to issuance of building permit	Department of Planning and Land Use—Building Division		
	Hydrogeology & Surface Hydrology					
MM 4.3.C5E	*A liner and leachate collection system shall be installed and monitored as required by the Regional Water Quality Control Board.*	Joint technical document; field verification and reporting by applicant's hydrogeologist	Phased installation of liner—verification as needed	Regional Water Quality Control Board		
MM 4.3.C5G	*The project shall comply with all requirements of the Regional Water Quality Control Board to ensure protection of surface and underground water quality.*	Joint technical document; field verification and reporting by consultant	Phased implementation of regulations—as needed	Regional Water Quality Control Board		
	Traffic and Circulation					
M 4.5.C5I	*In order to mitigate traffic impacts, the Applicant shall widen and realign State Route 76 on either side of the access road to improve sight distance and to facilitate truck movements. The realigned segment will provide approximately 1,000 feet of sight distance in both directions for traffic leaving the landfill. The Applicant shall contribute on a fair share basis to the widening of State Route 76 west of the access road to applicable state standards. The fair share shall be based upon the state*	Field verification of SR 76 improvements identified in the project description	Prior to acceptance of solid waste	Caltrans and County Department of Public Works		

TABLE 10-2
PROPOSITION C MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)

PROPOSITION C MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	standard average daily trips. Striping will be provided for acceleration/ deceleration lanes and an over-take lane for through traffic. These realignment plans may be modified as necessary to meet Caltrans requirements.					
	Noise and Vibration					
MM 4.6.C5K	*The applicant shall prepare a Noise Abatement Plan to include:* • *Physical design provisions to ensure that ambient noise levels do not exceed 65 CNEL at the boundaries of the Gregory Canyon site.* • *Installation of landfill equipment and vehicles with noise suppressing equipment to assist in meeting the above restrictions.*	Joint technical document; written plan by applicant; written report by applicant's noise expert after testing; letters prior to blasting	Annual report	County Department of Environmental Health		
	• *Provisions for at least 24-hour in advance written notice of any blasting on-site to residents within a one-mile radius of the blast site.* *Where ambient noise levels exceed 65 CNEL at the boundaries of the Gregory Canyon site, the applicant shall retain a qualified noise expert to evaluate the problem and recommend mitigation measures. These mitigation measures will be implemented by the applicant.*		Letters prior to blasting	Sheriff's Department and County Department of Environmental Health (Blasting)		
	Air Quality					
MM 4.7.C5F	*The Project shall include a network of vertical extraction wells, lateral transmission pipes to a gas recovery facility, and perimeter gas monitoring probes. With this system, the landfill gas will be extracted from the landfill and combusted in an enclosed flare.*	Plan review	Prior to issuance of a permit for gas recovery system	San Diego Air Pollution Control District		

TABLE 10-2
PROPOSITION C MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)

PROPOSITION C MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.7.C5J	*Air quality impacts associated with the Project shall be mitigated by meeting all requirements imposed by the San Diego Air Pollution Control District for the Authority to Construct and Authority to Operate permits.*	Plan review	Prior to issuance of Authority to Construct and Authority to Operate permits	San Diego Air Pollution Control District		
MM 4.7.C5L	*To control odors on-site, the Applicant shall submit an Odor Control Plan to the San Diego County Air Pollution Control District for review and approval.*	Written plan	Prior to acceptance of solid waste	San Diego Air Pollution Control District		
MM 4.7.C5M	*To control dust from Project operations, the Applicant shall submit a Dust Control Plan to the San Diego County Air Pollution Control District for review and approval.*	Written plan	Prior to acceptance of solid waste	San Diego Air Pollution Control District		
	Biological Resources					
MM 4.9.C5N	*All sensitive species and habitat impacted by the Project shall be mitigated in accordance with requirements imposed by the United States Fish & Wildlife Service as part of the Section 7 consultation.*	Biological opinion	Prior to issuance of grading permit	U.S. Department of Interior (U.S. Fish and Wildlife)		
MM 4.9.C5C	*At least five (5) days each week, the Applicant shall inspect for, and clean up, all litter and illegal dumping which occurs on, or adjacent to, the landfill access road and that portion of SR 76 between the intersection with Interstate 15 and the site. The clean up team shall consist of at least one truck with a minimum crew of two persons.*	Field verification	At the time of field inspections	County Department of Environmental Health and Department of Planning and Land Use—Codes Division		
	Ethnohistory and Native American Interests & Archaeological and Cultural Resources					
MM 4.11.C5P & MM4.12.C5P	*Impacts to Native American resources impacted by the Project shall be mitigated through the development of a Memorandum of Agreement between the Applicant and the appropriate regulatory agencies in accordance with Section 106 of the National Historic Preservation Act.*[6]	Memorandum of Agreement only if Section 106 applies	Prior to issuance of grading permit	State Historic Preservation Office		

[6] Section 106 consultation under the NHPA, if and to the extent required, will occur with issuance of the nationwide permit.

TABLE 10-2
PROPOSITION C MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)

PROPOSITION C MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
	To mitigate archaeological impacts caused by the Project, the Applicant shall retain a qualified archaeologist to investigate and recommend appropriate mitigation measures. These mitigation measures shall be implemented by the Applicant.	Letter from applicant's cultural expert	Prior to certification of the Final EIR or prior to or during construction as stated in mitigation measures 4.11-1 through 4.11-7	County Department of Environmental Health		
	Aesthetics					
MM 4.13.C5O	*In order to mitigate visual impacts associated with the Project, the Applicant shall employ extensive use of landscaping emphasizing native vegetation, and rounding/undulation of slopes on the refuse column and changes in slope angles. All landscaping shall be performed by a licensed landscape architect in the State of California. This licensed architect shall prepare a detailed landscape plan designed to minimize visual impacts associated with the Project to the maximum feasible extent. The plan prepared [by] the licensed architect shall be implemented by the Applicant upon completion.*	Landscape plan prepared by applicant's landscape architect	Prior to commencement of operation	County Department of Environmental Health		
	Human Health and Safety					
MM 4.16.C5C	*At least five (5) days each week, the Applicant shall inspect for, and clean up, all litter and illegal dumping which occurs on, or adjacent to, the landfill access road and that portion of Highway 76 between the intersection with Interstate 15 and the site. The clean up team shall consist of at least one truck with a minimum crew of two persons.*	Field inspection	At the time of field inspections	County Department of Environmental Health		
MM4.16.C5D	*The Applicant shall maintain trained, full-time personnel engaged exclusively and continuously in the inspection of incoming refuse loads for hazardous waste. These personnel shall be stationed at the working face of the landfill whenever the landfill is open to accept waste and shall inspect loads as they are tipped. Hazardous wastes encountered in this fashion shall be handled and disposed of in accordance with state regulations.*	Field inspection	At the time of field inspections	County Department of Environmental Health		

TABLE 10-2
PROPOSITION C MITIGATION MONITORING AND REPORTING PROGRAM (CONTINUED)

PROPOSITION C MITIGATION MEASURE NO.	MITIGATION MEASURE	METHOD OF VERIFICATION	TIMING OF VERIFICATION	RESPONSIBLE PARTY	VERIFICATION OF COMPLETION INITIALS	DATE
MM 4.16.C5F	*The Project shall include a network of vertical extraction wells, lateral transmission pipes to a gas recovery facility, and perimeter gas monitoring probes. With this system, the landfill gas will be extracted from the landfill and combusted in an enclosed flare.*	Plan review	Installation of extraction wells, transmission pipes and perimeter gas monitoring probes when determined appropriate	San Diego County Air Pollution Control District		