

**Continued Operation of the Puente Hills Landfill
Mitigation Monitoring and Reporting Program
SCH# 2000041066
January 23, 2002**

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
<i>Section 4.1 Aesthetics/Visual Resources</i>					
Potential for temporary reduction in visual quality resulting from construction activities under the proposed project.	4.1-1: When directed by the local enforcement agency, temporary vegetative cover would be established on slopes that would remain inactive for more than 180 days.	Los Angeles County Sanitation Districts (LACSD)	Los Angeles County Department of Health Services, the Local Enforcement Agency (LEA)	Monthly inspections	Over the life of the project.
	4.1-2: Wherever feasible, the Sanitation Districts would require all construction contractors to locate staging, equipment storage, and construction material storage areas in places that have no direct visual access from the surrounding community.	LACSD	LACSD	Monthly checklist	Throughout construction.
	4.1-3: Contractors would be required to clean up construction and storage areas as soon as practicable upon completion of construction.	LACSD	LACSD	Monthly checklist	Throughout construction.
	4.1-4: Except under emergency conditions or as special circumstances warrant, construction activities would occur only during daylight hours to minimize glare from construction lighting.	LACSD	LACSD	Monthly checklist	Throughout construction.
Potential for reduction in visual quality due to operations.	4.1-5: Final landfill slopes must be reclaimed and revegetated within 180 days with indigenous species to the extent possible.	LACSD	LACSD	Monthly checklist	Over the life of the project.

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Potential for reduction in visual quality due to operations. (cont.)	4.1-6: The continued adherence to the setback of operations and solid waste fill previously imposed by the Board of Supervisors.	LACSD	LA County Dept. of Regional Planning (LA Co DRP)	Biennial Report/Topographical maps	Over the life of the project.
	4.1-7: The Sanitation Districts must establish a fund to acquire, restore and maintain additional open space lands in the localized area.	LACSD	LA Co DRP	Biennial Report	Over the life of the project.
	4.1-8: Landfill-associated facilities and structures would be landscaped upon completion of facility construction. Additionally, 25 percent of the trees used to screen landfill facilities would be 24-inch box size at the time of planting, to ensure immediate screening effects.	LACSD	LA Co DRP	Biennial Report	Over the life of the project.
	4.1-9: All proposed fill areas would be irrigated in a manner to encourage efficient water usage and ensure establishment of plant materials.	LACSD	LA Co DRP	Biennial Report	Over the life of the project.
	4.1-10: Earthen berms would be used at the outermost edge of all disposal operations to screen landfill operations. The berms would be landscaped using hydroseeding procedures and would be subject to Mitigation Measures 4.1-9.	LACSD	LA Co DRP	Biennial Report	Over the life of the project.
	4.1-11: All landfill-associated facilities, structure exteriors, and signage would be of a color (including rooftops) consistent with the surrounding areas.	LACSD	LEA/LA Co DRP	Monthly inspections/Biennial Report	Over the life of the project.
	4.1-12: A plan that ensures the removal of unnecessary landfill-associated structures, and signage would be included in the Closure Plan for the Puente Hills Landfill.	LACSD	LEA/California Integrated Waste Management Board (CIWMB)	Closure Plan	After closure.

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Potential for reduction in visual quality due to operations. (cont.)	4.1-13: Fugitive litter would be removed from areas adjacent to the landfill and along all access roads.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.1-14: Maintenance and regular upkeep of landfill-associated facilities, structures and signage (cleaning, painting, and construction maintenance) would be performed throughout the operating life of the site.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.1-15: All lighting associated with the landfill shall be non-intrusive to adjacent and surrounding land uses.	LACSD	LACSD	Monthly checklist	Over the life of the project.
	4.1-16: All onsite roads serving the landfill would be paved, covered with gravel, treated with a chemical soil binder, or watered as necessary to limit fugitive dust emissions associated with truck travel.	LACSD	LEA	Monthly inspections	Over the life of the project.
	4.1-17: Prepare and implement a landscape plan to increase visual screening of landfill operations from the Skyline Trail. This plan should be submitted to the Director of Regional Planning within 180 days of the effective date of the CUP. The plan shall include a conceptual implementation schedule.	LACSD	LA Co DRP	Landscaping Plan	Within 180 days of the effective date of the CUP.

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Section 4.2 Biological Resources					
<p>Potential for impact on the federally threatened coastal California gnatcatcher and other special status birds due to reduction of habitat as a result of excavation activities related to slope stabilization and composite liner construction on the north facing slope of the Nike site and other areas on-site.</p>	<p>4.2-1: A biologist with the appropriate qualifications shall conduct protocol-level surveys in the project study area in accordance with U.S. Fish and Wildlife Service guidelines for coastal California gnatcatcher and other special status birds during the year of construction. In the event that no special status bird is nesting in this area, no further mitigation is necessary. In the event that coastal California gnatcatcher or any other special status bird is nesting within this area, one of two options shall be employed to avoid a "taking":</p> <p>1) Construction activities shall begin prior to or after the nesting season (February 15 through August 30), or until after the young have fledged to prevent any loss of individuals, nests or eggs; or</p> <p>2) If construction starts during the nesting season, avoid the nesting area and related habitat by keeping at least 500 feet from the nest or as determined by a qualified construction monitor. This distance may be modified in consultation with USFWS depending upon the site circumstances.</p>	LACSD	LA Co DRP	Biennial Report	Prior to excavation activities within the specified areas

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Potential for impact on California walnut woodland, a sensitive plant community as defined by CDFG, as a result of excavation activities related to slope stabilization on the north-facing slope of the Nike site.	4.2-2: Replace lost southern California black walnut trees at a ratio of three replacement trees per one lost tree. The replacement trees would be greater than or equal to 5-gallons or the nursery "bare-root" equivalent. Replacement trees would be planted, with suitable protection from browsing animals, in appropriate habitat within Canyons 6, 7 or 8 of the native habitat preservation area managed by the PHLNHPA, or within appropriate habitat in the Eastern Canyons of the landfill. Replacement trees would be maintained and monitored for a minimum of three years.	LACSD	LA Co DRP	Biennial Report	Prior to tree removal
Potential to cause impact to native wildlife species due to operations.	4.2-3: Habitat preservation area in the higher quality native habitat of Canyons 6, 7, and 8 would be maintained.	LACSD	LA Co DRP	Biennial Report	In perpetuity.
	4.2-4: In order to ensure the maximum amount of biological integrity consistent with expansion of the landfill, a wildlife movement area would be maintained between the grading and fence connecting the remaining natural open space. (The preserved wildlife movement corridor would not be less than the existing width adjacent to the active operational area.)	LACSD	LA Co DRP	Biennial Report	Over the life of the project.

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Potential to cause impact to native wildlife species due to operations. (cont.)	4.2-5: Native protected topography would be maintained between the residential areas and the proposed habitat preservation area, and any retained open space at the mouth of Canyons 1, 2, 3, 4, and 5. In addition, measures would be implemented to discourage intrusion (by humans and domestic animals) into the preserved areas.	LACSD	LA Co DRP	Biennial Report	In perpetuity.
	4.2-6: Indirect impacts associated with dust, night lighting, and blowing debris would be minimized as follows. Noise would be controlled through proper maintenance of diesel-operated trucks, bulldozers and other machinery. Dust would be controlled at its source with standard wetting techniques now practiced at the existing landfill operation. A proposed continuous litter maintenance program and the use of fencing should reduce the amount of debris that intrudes into preserved open space.	LACSD.	LEA	Monthly inspections	Over the life of the project.
	4.2-7: Final landfill slopes would be revegetated within six months. Planting mixes would include a mixture of native, non-native, and ornamental grasses, shrubs, and trees that would provide suitable forage and cover for native wildlife.	LACSD	LA Co DRP	Biennial Report	Over the life of the project
	4.2-8: To enlarge the wildlife movement corridor between Ecology Canyon and Sycamore Canyon, post-closure vegetation of the landfill with oak woodland or coastal sage scrub would be conducted.	LACSD	LEA/ CIWMB	Closure Plan	After closure.

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Potential to cause impact to native wildlife species due to operations. (cont.)	4.2-9: Additional funding would be transferred to the PHLNHPA with the approximately ten years of additional operation. The PHLNHPA will be able to use these funds to acquire, manage, and preserve additional lands in perpetuity throughout the Puente Hills.	LACSD	LA Co DRP	Biennial Report	Over the life of the project.

Section 4.3 Cultural Resources

Potential to uncover previously unknown archaeological or palaeontological resources during earthmoving activities.	4.3-1: Should historic and/or prehistoric archaeological resources be unearthed during excavation, significant earthmoving, and/or grading activities, a SOPA-certified archaeologist would be notified and would have the authority to stop or temporarily divert grading activities in the immediate area to properly document and assess the significance of the finds.	Qualified Archaeologist	LA Co DRP	Biennial Report	Over the life of the project.
	4.3-2: All resources recovered during the project would be donated to a local institution that has the proper facilities for curation, display, and use by qualified scholars.	Qualified Archaeologist and Paleontologist	LA Co DRP	Biennial Report	Over the life of the project.
	4.3-3: Earthmoving activities would be monitored. The monitoring program would be developed by a qualified paleontologist. Monitoring would consist of visually inspecting fresh exposures of rock for larger fossil remains. The frequency and duration of the monitor's inspections would depend on the rate of excavation, frequency of fossil discovery, and the materials being excavated.	Qualified Paleontologist	LA Co DRP	Biennial Report	Over the life of the project.

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Potential to uncover previously unknown archaeological or palaeontological resources during earthmoving activities. (cont.)	4.3-4: A qualified paleontologist would evaluate the potential significance of fossils exposed by grading operations. If the fossils are determined to be potentially significant, the fossils would require salvage. Salvage would consist of the excavation of the exposed fossil. Sediment samples also would be collected for processing through fine mesh screens as part of the salvage operations. The size and frequency of these samples would depend on the materials being excavated. Samples would be processed, as part of the monitoring task, for smaller megainvertebrate and vertebrate fossil remains.	Qualified Paleontologist	LA Co DRP	Biennial Report	Over the life of the project.
	4.3-5: If larger fossil remains are uncovered, earthmoving activities would be diverted away from the fossil site until the remains have been removed and a rock sample has been collected to process for smaller fossil remains, if appropriate.	Qualified Paleontologist	LA Co DRP	Biennial Report	Over the life of the project.
	4.3-6: A qualified paleontologist, in conjunction with the site geologist, would gather stratigraphic data on the locations of fossil occurrences. This would consist of plotting the locations of fossil occurrences on the as-graded geologic map. The paleontologist or site geologist would measure stratigraphic sections to place the fossils in the proper stratigraphic context.	Qualified Paleontologist and Geologist	LA Co DRP	Biennial Report	Over the life of the project.

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Potential to uncover previously unknown archaeological or palaeontological resources during earthmoving activities. (cont.)	4.3-7: The paleontologist would conduct the initial processing (wet and/or dry screening) of selected fossiliferous rock samples for smaller fossil remains while onsite. No more than 6,000 pounds of rock would be processed from any rock unit. The resulting concentrate would be transported to a museum facility for final processing (heavy liquid flotation and picking).	Qualified Paleontologist	LA Co DRP	Biennial Report	Over the life of the project.
	4.3-8: All fossil remains recovered in the field during monitoring and by processing rock samples would be prepared, sorted, identified, cataloged, curated, and accessioned into the Natural History Museum of Los Angeles County, Los Angeles collections. Accompanying notes, maps, and photographs will also be filed at the museum.	Qualified Paleontologist	LA Co DRP	Biennial Report	Over the life of the project.
	4.3-9: After the completion of these tasks the paleontologist would prepare a report summarizing the results of the mitigation program, presenting an inventory and describing the scientific importance of any accessioned fossil remains. The report would be submitted to the Natural History Museum of Los Angeles County, Los Angeles, and would signify completion of the paleontologic mitigation program.	Qualified Paleontologist	LA Co DRP	Biennial Report	Over the life of the project.

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Potential to uncover previously unknown archaeological or palaeontological resources during earthmoving activities. (cont.)	5.19.1-1: Before excavation of the 12 acres on the north-facing slope of the Nike Site area, the Sanitation Districts would consult with the Native American Heritage Commission on issues related to the on-going archeological monitoring program including contingencies for the evaluation and curation of archeological resources inadvertently discovered during project activities.	LACSD	LA Co DRP	Biennial Report	Prior to and during excavation of the Nike site.
	5.19.1-2: The Sanitation Districts would follow all the provisions of California Health and Safety Code Section 7050.5, the <i>State CEQA Guidelines</i> Section 15064.5(e), and California Public Resources Code Section 5097.98 in the event human remains are found in a location other than a dedicated cemetery during excavation of the 12 acres on the north-facing slope of the Nike Site area.	LACSD	LA Co DRP	Biennial Report	During specified excavation activities.

Section 4.4 Traffic

Potential for project plus cumulative traffic to impact to the surrounding street system.	4.4-1: Conduct a traffic signal warrant for the Crossroads Parkway at Landfill Main Entrance intersection on a periodic basis.	LACSD	LA Co DPW	Copy to the LA Co DPW.	Over the life of the project.
	4.4-2: Commensurate with development of the cumulative projects, the Sanitation Districts would restripe the intersection at Crossroads Parkway South and Crossroads Parkway North.	LACSD	LA Co DPW	Copy to the LA Co DPW.	Over the life of the project

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Potential for project plus cumulative traffic to impact to the surrounding street system. (cont.)	5.19.4-1: The Sanitation Districts would send a copy of any future traffic studies related to the Continued Operation of the Puente Hills Landfill to the State of California Department of Transportation.	LACSD	Department of Transportation	Copy to the Department of Transportation.	Over the life of the project.
	5.19.4-2: Landfill gates would be opened at the Crossroads Parkway Entrance one hour before the site opens for business.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	5.19.4-3: The Sanitation Districts would periodically monitor the 605 Freeway at Pellissier Place intersection. If this project is not built to the currently proposed size, the intersection should be re-analyzed. This intersection can be mitigated to an acceptable level of service by allowing one dedicated left turn lane, with one left and through lane, and one dedicated through lane in the eastbound direction. As needed, the Sanitation Districts would participate in the future mitigation of this intersection commensurate with the proposed project's contribution to the impact.	LACSD	LA Co DPW	Copy to LA Co DPW.	Over the life of the project.

Section 4.5 Air Quality

Potential for short-term increase in criteria pollutant emissions resulting from construction activities under the proposed project.	4.5-1: All construction projects would be scheduled during off-peak traffic periods to the extent feasible.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-2: Construction areas and haul roads would be watered prior to and throughout construction activity.	LACSD	LACSD	Monthly checklist.	During construction.

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Potential for short-term increase in criteria pollutant emissions resulting from construction activities under the proposed project. (cont.)	4.5-3: Ground cover disturbed during construction would be reestablished through seeding.	LACSD	LACSD	Monthly checklist.	Post construction activities.
	4.5-4: Sanitation Districts' vehicles and equipment would be properly tuned and maintained.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-5: Hauling trucks would be covered.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-6: The use of alternative clean burning fuels and/or after treatment devices in Sanitation Districts' heavy-duty equipment and vehicles where feasible and cost-effective, and to encourage their use in on-road residential and commercial solid waste collection vehicles.	LACSD	LACSD	Monthly checklist.	During construction.
Potential for air quality impacts due to mobile sources.	4.5-4: Sanitation Districts' vehicles and equipment would be properly tuned and maintained.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-6: The use of alternative clean burning fuels and/or after treatment devices in Sanitation Districts' heavy-duty equipment and vehicles where feasible and cost-effective, and to encourage their use in on-road residential and commercial solid waste collection vehicles.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-7: Efficient parking and use of a shuttle system to and from the facility and the parking lot.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-8: Catalytic converters used on gasoline-powered equipment.	LACSD	LACSD	Monthly checklist.	Over the life of the project.

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Potential for air quality impacts due to landfill gas.	4.5-9: State-of-the-art gas control system, including vertical collection wells, horizontal collection trenches, in conjunction with a low gas permeability liner, will be installed in areas where new filling has occurred, or in older areas where existing systems require replacements. The Best Available Control Technology for any new combustion or other ultimate processing devices will be utilized.	LACSD	SCAQMD	Issuance of permits and site inspections	Over the life of the project.
	4.5-10: Monitoring programs will be conducted for migration through the landfill surface or through the soil to the project boundaries, for levels of methane in enclosed structures, and for the appropriate operating parameters and effectiveness of the gas control systems.	LACSD	LA Co DPW/LEA/SCAQMD	Site inspections and routine reports.	Over life of the project.
	4.5-11: Adequate cover would be applied on solid waste fill, and visually inspected on a regular basis for cracks, which would be repaired through application and compaction of additional cover material	LACSD	LEA/SCAQMD	Site inspections.	Over the life of the project.
	4.5-12: During the construction of gas control systems, any potential air emissions would be conveyed for combustion or other ultimate processing. When installing landfill gas wells, each well would be covered by a box, which would allow it to be under a slight vacuum to draw off any landfill gas.	LACSD	LEA/SCAQMD	Issuance of permits and site inspections.	During construction.
Potential for air quality impacts due to fuel storage and dispensing.	4.5-13: California Air Resources Board (CARB) certified submerged fill tube.	LACSD	LACSD	Monthly checklist.	Prior to installation.

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Potential for air quality impacts due to fuel storage and dispensing. (cont.)	4.5-14: CARB certified Phase I and Phase II vapor recovery systems.	LACSD	LACSD	Monthly checklist.	Prior to installation
	4.5-15: Equipment operated and maintained according to Rule 461 requirements.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-16: Successful reverification testing of vapor recovery systems in accordance with Rule 461 requirements.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
Potential for air quality impacts due to fugitive dust emissions.	4.5-17: Operational areas, including top deck and excavation slopes that are to be exposed for an extended period are sprayed with a hydromulch mixture or a synthetic binder solution. As appropriate, irrigation systems are installed on final areas.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.5-18: Excessively dusty loads are not accepted for disposal. Water trucks are available to wet down any dusty solid waste loads and to spray water on all on-site roads in use.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.5-19: Areas where grading is occurring are wetted as necessary to reduce dust.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.5-20: Traffic is restricted to specific roads that are paved, if possible, and wetted on a regular basis. When practical, areas not receiving traffic are sprayed with a hydromulch solution or synthetic binder.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.5-21: A curb and gutter would be placed on appropriate portions of the paved access road.	LACSD	LACSD	Monthly checklist.	Over the life of the project.

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Potential for air quality impacts due to fugitive dust emissions. (cont.)	4.5-22: Street-sweeping frequency on paved roadways would be increased from once per week to twice per day. This would require purchase of a new street sweeper dedicated to the Puente Hills landfill and MRF.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-23: Vehicle travel on unpaved areas in the active landfill face would be reduced by 50%. This would be accomplished by paving access ramps to the working area with crushed aggregate and concrete, treating this area with chemical stabilizers, and restricting travel as much as possible to the paved ramps as opposed to the unpaved working area surface.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-24: Chemical stabilizer would be applied to the bench roads and to the dirt shoulder on appropriate portions of the paved access road.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	5.19.5-1: The Sanitation Districts have recently equipped three water masters and two water trucks with water cannons, which would be used to direct the water spray longer distances into the refuse unloading area to mitigate dust emissions from this activity. This equipment would be staged at the disposal area, as necessary. Additional water cannons would be installed, if necessary.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
Potential for air quality impacts due to odors.	4.5-25: Potential odors in the operating area of the landfill would be controlled by rejection of extremely odorous loads and application of daily cover.	LACSD	LEA	Monthly inspections.	Over the life of the project.

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Potential for air quality impacts due to odors. (cont.)	4.5-26: The design and installation of additional proposed landfill gas collection and management systems would occur in a timely manner to minimize potential odors associated with landfill gas. During construction of gas control systems, potentially odorous emissions are conveyed for flaring or alternative processing. Also, where appropriate, odor masking or neutralizing agents are used to prevent odors resulting from drilling or excavation of solid waste.	LACSD	LEA/SCAQMD	Site inspections.	Over the life of the project.
	4.5-27: The Sanitation Districts would fully comply with the requirements of SCAQMD Rule 1150.1. This includes routine instantaneous and integrated monitoring of the landfill. As required by the rule, any areas found to be in exceedance of the standards will be remediated by cover maintenance, landfill gas system adjustments, or installation of a new gas collector, in the time-frames allowed under the rule. Remediation will also include the repairing of surface cracks that can lead to landfill gas emissions.	LACSD	SCAQMD	Routine reports.	Over the life of the project.
	4.5-28: As appropriate, the Sanitation Districts will continue to conduct periodic odor surveys on the landfill and at various points in the area surrounding the project site. The cause of any odors detected by such odor surveys or as reported by nearby residents will be immediately investigated and appropriate action taken.	LACSD	LACSD	Monthly checklist.	Over the life of the project.

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Potential for air quality impacts due to odors. (cont.)	4.5-29: The Sanitation Districts would continue to operate wind machines at the toe of the solid waste, or the area deemed appropriate, during the evening hours of the time periods most likely to lead to severe inversions. These machines help break up any odors that may emanate from the green waste alternative daily cover.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-30: To the greatest extent feasible, the Sanitation Districts would use a green waste and soil mixture (or equivalent material), as an alternative daily cover. Studies conducted by the Sanitation Districts have shown that mixing the green waste with soil dramatically reduces potential odors.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.5-31: The Sanitation Districts would continue, as appropriate, to haul green waste offsite for reuse.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-32: To the maximum extent feasible, the Sanitation Districts would process and use all green waste brought to the site by the conclusion of the daily activities.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-33: The Sanitation Districts would investigate, and work with the community, on special additional tree planting of the Eastern Canyon Slope leading to the community (Canyon No 4). Some literature has suggested that trees may be able to break up, or reduce the severity of inversions, that can lead to odor transport.	LACSD	LACSD	Monthly checklist.	Over the life of the project.

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Potential for air quality impacts due to odors. (cont.)	5.19.5-2: In addition to evening odor monitoring, the Sanitation Districts would expand the monitoring times to include odor monitoring during other hours in response to complaints, as appropriate. This would allow the Sanitation Districts to take appropriate action to mitigate the odors immediately if odor are detected in the neighborhood.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	5.19.5-3: The green waste grinding operation would be sprayed with water or masking agent to reduce odors.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	5.19.5-4: The Sanitation Districts would spray water or deodorizing agent into the open trench during all gas collection trench construction to reduce the potential of odor transport. The trenching spoils would also be sprayed with water or masking agent to reduce odors when it is loaded into dump trucks for transport to the active refuse operations area.	LACSD	LACSD	Monthly checklist.	During gas collection trench construction.
	5.19.5-5: A Sanitation Districts' technician would be dispatched to the desiltation basins to the east of the Canyon 4/5 area during landfill gas collection trench construction to monitor odors. If odors are detected, the technician would notify the site and halt all trench construction related activities.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	5.19.5-6: If wind condition permits (less than 5 miles per hour), the Sanitation Districts would operate the fan during landfill gas collection trench construction to disperse potential odors.	LACSD	LACSD	Monthly checklist.	Over the life of the project.

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Potential for air quality impacts due to odors. (cont.)	5.19.5-7: Although odor occurrences are expected to decrease as landfill operations become more distant from the community as the elevation of the landfill increases, the Sanitation Districts would continue to consult with a meteorologist to evaluate odor transport as the elevation of the landfill increases.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
Potential for air quality impacts due to exposure to toxic air pollutants.	4.5-9: State-of-the-art gas control system, including vertical collection wells, horizontal collection trenches, in conjunction with a low gas permeability liner, will be installed in areas where new filling has occurred, or in older areas where existing systems require replacements. The Best Available Control Technology for any new combustion or other ultimate processing devices will be utilized.	LACSD	SCAQMD	Issuance of permits and site inspections	Over the life of the project.
	4.5-10: Monitoring programs will be conducted for migration through the landfill surface or through the soil to the project boundaries, for levels of methane in enclosed structures, and for the appropriate operating parameters and effectiveness of the gas control systems.	LACSD	LA Co DPW/LEA/SCAQMD	Site inspections and routine reports.	Over life of the project.
	4.5-11: Adequate cover would be applied on solid waste fill, and visually inspected on a regular basis for cracks, which would be repaired through application and compaction of additional cover material	LACSD	LEA/SCAQMD	Site inspections.	Over the life of the project.

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Potential for air quality impacts due to exposure to toxic air contaminants. (cont.)	4.5-12: During the construction of gas control systems, any potential air emissions would be conveyed for combustion or other ultimate processing. When installing landfill gas wells, each well would be covered by a box, which would allow it to be under a slight vacuum to draw off any landfill gas.	LACSD	LEA/SCAQMD	Issuance of permits and site inspections.	During construction.
Potential health risk impacts due to proposed project plus cumulative projects.	4.5-4: Sanitation Districts' vehicles and equipment would be properly tuned and maintained.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-6: The use of alternative clean burning fuels and/or after treatment devices in Sanitation Districts' heavy-duty equipment and vehicles where feasible and cost-effective, and to encourage their use in on-road residential and commercial solid waste collection vehicles.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-7: Efficient parking and use of a shuttle system to and from the facility and the parking lot.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-9: State-of-the-art gas control system, including vertical collection wells, horizontal collection trenches, in conjunction with a low gas permeability liner, will be installed in areas where new filling has occurred, or in older areas where existing systems require replacements. The Best Available Control Technology for any new combustion or other ultimate processing devices will be utilized.	LACSD	SCAQMD	Issuance of permits and site inspections	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential health risk impacts due to proposed project plus cumulative projects. (cont.)	4.5-10: Monitoring programs will be conducted for migration through the landfill surface or through the soil to the project boundaries, for levels of methane in enclosed structures, and for the appropriate operating parameters and effectiveness of the gas control systems.	LACSD	LA Co DPW/LEA/SCAQMD	Site inspections and routine reports.	Over life of the project.
	4.5-11: Adequate cover would be applied on solid waste fill, and visually inspected on a regular basis for cracks, which would be repaired through application and compaction of additional cover material	LACSD	LEA/SCAQMD	Site inspections.	Over the life of the project.
	4.5-12: During the construction of gas control systems, any potential air emissions would be conveyed for combustion or other ultimate processing. When installing landfill gas wells, each well would be covered by a box, which would allow it to be under a slight vacuum to draw off any landfill gas.	LACSD	LEA/SCAQMD	Issuance of permits and site inspections.	During construction.
Potential for air quality impacts due to operation of the proposed project plus cumulative projects.	4.5-1: All construction projects would be scheduled during off-peak traffic periods to the extent feasible.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-2: Construction areas and haul roads would be watered prior to and throughout construction activity.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-3: Ground cover disturbed during construction would be reestablished through seeding.	LACSD	LACSD	Monthly checklist.	Post construction activities.
	4.5-4: Sanitation Districts' vehicles and equipment would be properly tuned and maintained.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-5: Hauling trucks would be covered.	LACSD	LACSD	Monthly checklist.	During construction.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential for air quality impacts due to operation of the proposed project plus cumulative projects. (cont.)	4.5-6: The use of alternative clean burning fuels and/or after treatment devices in Sanitation Districts' heavy-duty equipment and vehicles where feasible and cost-effective, and to encourage their use in on-road residential and commercial solid waste collection vehicles.	LACSD	LACSD	Monthly checklist.	During construction.
	4.5-7: Efficient parking and use of a shuttle system to and from the facility and the parking lot.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-8: Catalytic converters used on gasoline-powered equipment.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-9: State-of-the-art gas control system, including vertical collection wells, horizontal collection trenches, in conjunction with a low gas permeability liner, will be installed in areas where new filling has occurred, or in older areas where existing systems require replacements. The Best Available Control Technology for any new combustion or other ultimate processing devices will be utilized.	LACSD	SCAQMD	Issuance of permits and site inspections	Over the life of the project.
	4.5-10: Monitoring programs will be conducted for migration through the landfill surface or through the soil to the project boundaries, for levels of methane in enclosed structures, and for the appropriate operating parameters and effectiveness of the gas control systems.	LACSD	LA Co DPW/LEA/SCAQMD	Site inspections and routine reports.	Over life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential for air quality impacts due to operation of the proposed project plus cumulative projects. (cont.)	4.5-11: Adequate cover would be applied on solid waste fill, and visually inspected on a regular basis for cracks, which would be repaired through application and compaction of additional cover material	LACSD	LEA/SCAQMD	Site inspections.	Over the life of the project.
	4.5-12: During the construction of gas control systems, any potential air emissions would be conveyed for combustion or other ultimate processing. When installing landfill gas wells, each well would be covered by a box, which would allow it to be under a slight vacuum to draw off any landfill gas.	LACSD	LEA/SCAQMD	Issuance of permits and site inspections.	During construction.
	4.5-14: CARB certified Phase I and Phase II vapor recovery systems.	LACSD	LACSD	Monthly checklist.	Prior to installation
	4.5-15: Equipment operated and maintained according to Rule 461 requirements.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-16: Successful reverification testing of vapor recovery systems in accordance with Rule 461 requirements.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-17: Operational areas, including top deck and excavation slopes that are to be exposed for an extended period are sprayed with a hydromulch mixture or a synthetic binder solution. As appropriate, irrigation systems are installed on final areas.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.5-18: Excessively dusty loads are not accepted for disposal. Water trucks are available to wet down any dusty solid waste loads and to spray water on all on-site roads in use.	LACSD	LEA	Monthly inspections.	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential for air quality impacts due to operation of the proposed project plus cumulative projects. (cont.)	4.5-19: Areas where grading is occurring are wetted as necessary to reduce dust.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.5-20: Traffic is restricted to specific roads that are paved, if possible, and wetted on a regular basis. When practical, areas not receiving traffic are sprayed with a hydromulch solution or synthetic binder.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.5-21: A curb and gutter would be placed on appropriate portions of the paved access road.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-22: Street-sweeping frequency on paved roadways would be increased from once per week to twice per day. This would require purchase of a new street sweeper dedicated to the Puente Hills landfill and MRF.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-23: Vehicle travel on unpaved areas in the active landfill face would be reduced by 50%. This would be accomplished by paving access ramps to the working area with crushed aggregate and concrete, treating this area with chemical stabilizers, and restricting travel as much as possible to the paved ramps as opposed to the unpaved working area surface.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.5-24: Chemical stabilizer would be applied to the bench roads and to the dirt shoulder on appropriate portions of the paved access road.	LACSD	LACSD	Monthly checklist.	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Section 4.6 Geology and Hydrogeology					
Potential for increased short-term erosion during construction.	4.6-1: Require all construction contractors to abide by BMPs in the SWPPP for the site. The Sanitation Districts would include in any construction project specifications a requirement for the contractor(s) to follow the BMPs to minimize erosion. The Sanitation Districts would monitor the construction to ensure compliance. Relevant BMPs that would be implemented include: limiting construction areas to the minimum extent feasible, using silt fences or other means to filter sediment before discharge and, as necessary, limiting construction activities during wet periods.	LACSD	LACSD	Monthly checklist.	During construction.
Potential for landfill damage and personal injury due to geologic hazards.	4.6-2: Design of excavation slopes that would incorporate site-specific geologic stability as well as anticipated earthquake forces. Final excavation slopes would be designed pursuant to 27 CCR regulations which incorporates federal Subtitle D requirements.	LACSD	LARWQCB	Technical Design Report reviewed by the LARWQCB	Over the life of the project.
	4.6-3: Existing native material slumps and slides would be removed or stabilized, as necessary, as a standard part of the excavation and grading in the fill area.	LACSD	LEA	Monthly inspections.	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential for landfill damage and personal injury due to geologic hazards. (cont.)	4.6-4: Design of the final solid waste fill slopes would attain the minimum factor of safety under the Maximum Probable Earthquake or Maximum Credible Earthquake conditions required by state and federal regulations. All solid waste fill slope static and seismic evaluations would be reviewed and approved by the designated regulatory agencies.	LACSD	LARWQCB	Technical Design Report reviewed by LARWQCB.	Over the life of the project.
	4.6-5: Design of proposed environmental control systems would accommodate the anticipated effects of the design ground acceleration for the site. Immediate inspection of all environmental controls systems at the site would be a planned response to an earthquake in the Southern California area. Existing emergency response plans and post-earthquake inspection plans for Puente Hills Landfill would be updated as necessary to incorporate the proposed project.	LACSD	LACSD	Monthly checklist.	Over the life of the project.

Section 4.7 Water Quality

Potential for short-term surface water quality degradation resulting from construction activities related to the proposed project.	4.7-1: Landfill construction procedures that minimize direct contact of storm water runoff with solid waste during wet weather operations would continue to be implemented.	LACSD	LACSD	Monthly Checklist.	During construction.
	4.7-2: Require that all construction contractors retained by the Sanitation Districts conform to the BMPs in the SWPPP for the site. This requirement would be contained in the project specifications for each construction project.	LACSD	LACSD	Monthly checklist.	During construction.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential for surface water quality degradation resulting from the operation of the proposed project.	4.7-3: Grading procedures designed to result in rapid runoff, thus preventing rainwater ponding on solid waste, would continue to be implemented.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.7-4: Vegetation and grading of temporary and permanent slopes to minimize erosion would continue to be implemented.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.7-5: Long-term maintenance plans to ensure continuous functioning of all the permanent drainage facilities would continue to be implemented.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.7-6: A runoff monitoring program for sampling and evaluating the water quality of storm water runoff from the proposed project would continue to be implemented.	LACSD	RWQCB	Quarterly Reports	Over the life of the project.
	4.7-7: To prevent excessive rainwater from entering the LCRS from exposed liner slopes, potentially causing LCRS liquid overflow to surface water bodies, the Sanitation Districts will continue to implement the following mitigation measures: 1) A temporary protective membrane will be installed over the exposed liner to channel more of the rainwater toward the storm drain system, thereby reducing the volume of rainwater that enters the LCRS; 2) The bench LCRS located on the upper slopes above the solid waste fill level will not be initially connected to the main LCRS. These unconnected bench LCRS act as bench drains diverting any rainwater that collects on the upper benches toward the storm drain system. As the solid waste fill level rises, the	LACSD	LACSD	Monthly checklist.	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential for surface water quality degradation resulting from the operation of the proposed project. (cont.)	temporary membrane over the exposed liner would be removed and the bench LCRS would be connected to the main LCRS; 3) During the rainy season, the Sanitation Districts will implement measures for increasing the pumping and storage capacity of the LCRS. High capacity pumps in the LCRS collection sump may be temporarily deployed to prevent overflow of the sump. Additional storage tanks have been made available to store the peak inflow into the sump. Site personnel will conduct onsite monitoring of the water level in the sump during rain storm events. If necessary, water trucks will be dispatched to haul excess water from the LCRS sump for disposal to the sewer system.				
	4.7-8: To reduce the potential for leachate formation, the Sanitation Districts have existing control systems that would be continued as part of the proposed project. These operations and control systems include: 1) Implementation of a hazardous waste inspection program, 2) Adhering to the limits specified by the RWQCB for liquid content of incoming waste; 3) Operation and maintenance of a landfill gas condensate collection system; 4) Operation and maintenance of a stormwater diversion and collection system; and 5) Installation and maintenance of a low permeability, engineered final cover to control infiltration.	LACSD	LEA/RWQCB	Inspections/Quarterly Reports	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential for groundwater quality degradation resulting from the operation of the proposed project. (cont.)	4.7-9: To ensure that any leachate that could potentially be generated and that any groundwater that may be affected by landfill gas does not impact beneficial uses of groundwater, the Sanitation Districts have existing groundwater protection systems that would be continued as part of the proposed project. These groundwater protection systems would include: 1) Installation of composite liner system for proposed side slope areas; 2) Continued operation and monitoring of subsurface barrier extraction systems; 3) Implementation of the approved groundwater monitoring programs under RWQCB's oversight; 4) Continued operation of the landfill gas collection system and gas monitoring programs to minimize potential gas contact with groundwater; 5) Increased extraction of subsurface water or landfill gas, if necessary, by the installation of additional wells; 6) Any identified contamination would be investigated and remediated, if necessary, following a feasibility study; and 7) In the event that treatment is warranted either in-situ, or above ground, treatment would be employed using physical, chemical, or biological methods.	LACSD	RWQCB	Inspections/Quarterly Reports	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential for groundwater quality degradation resulting from the operation of the proposed project. (cont.)	5.19.6-1: The Sanitation Districts, at the request of the Upper San Gabriel Valley Municipal Water District, would implement an enhanced evaluation program to aid in the review of groundwater conditions at the site. This proposed program would be conducted by the Sanitation Districts in addition to existing regulatory requirements. This process would include monitoring of additional wells, identification of appropriate landfill indicator parameters, evaluation of additional data on a long term and short term basis to determine trends, provisions to cooperatively analyze data and, if necessary, investigate increasing trends. The monitoring results of this enhanced evaluation program would be sent to relevant regulatory agencies and the Upper San Gabriel Valley Municipal Water District.	LACSD	LACSD/Upper San Gabriel Valley Municipal Water District	Monitoring Reports	Over the life of the project.

Section 4.8 Surface Water Drainage

Potential for personal injury or property damage resulting from flooding during operation.	4.8-1: Flow control systems, including sedimentation basins, would be designed in compliance with the LA Co DPW requirements. Permanent facilities would ensure flow attenuation of the maximum design storm with 100-year frequency and 24-hour duration to prevent any impacts on offsite receiving structures.	LACSD	LA Co DPW	Design Reports	Over the life of the project and throughout closure and post-closure.
	4.8-2: Long-term maintenance plans to ensure continuous functioning of all permanent drainage facilities would continue to be implemented.	LACSD	LACSD	Monthly checklist.	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential for landfill settlement on the surface water drainage system.	4.8-2: Long-term maintenance plans to ensure continuous functioning of all permanent drainage facilities would continue to be implemented.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.8-3: Grading procedures, designed to result in rapid runoff, thus preventing rainwater from ponding on solid waste, would continue to be implemented.	LACSD	LEA	Monthly inspections	Over the life of the project.
Potential for the surface water drainage system to become blocked, affecting the diversion of stormwater from the landfill.	4.8-2: Long-term maintenance plans to ensure continuous functioning of all permanent drainage facilities would continue to be implemented.	LACSD	LACSD	Monthly checklist.	Over the life of the project.
	4.8-4: Vegetation and grading of temporary and permanent slopes to minimize erosion would continue to be implemented.	LACSD	LEA	Monthly inspections	Over the life of the project.

Section 4.9 Noise and Vibration

Potential for impact to surrounding land uses due elevated noise levels from construction activities.	4.9-1: Portable noise barriers would be used during construction activities as necessary. These portable barriers would be placed between the construction site and residences to block the line of sight and provide noise reduction.	LACSD	LACSD	Monthly checklist.	During construction.
	4.9-2: Construction equipment would be properly muffled to reduce construction noise impacts.	LACSD	LACSD	Monthly checklist.	During construction.
	4.9-3: Construction would be limited to the hours of 7 a.m. to 8 p.m., Monday through Saturday, except under emergency conditions or as other situations warrant.	LACSD	LACSD	Monthly checklist.	During construction.
	4.9-4: Notify residences immediately adjacent to the eastern border of the site prior to initiating sewer system improvement activities within 500 feet of the fence line.	LACSD	LACSD	Monthly checklist.	Notification at least 2 weeks prior to construction.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential for impact to surrounding land uses due elevated noise levels from construction activities. (cont.)	4.9-5: All construction activities would abide by local noise ordinances.	LACSD	LACSD	Monthly checklist.	During construction.
Potential for impact to surrounding land uses due elevated noise levels from operation of the proposed project.	4.9-6: Mitigation berms would be implemented to minimize noise from the landfill unloading/covering process.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.9-7: Operation related equipment would be properly muffled to reduce operation noise impacts.	LACSD	LACSD	Monthly checklist.	Over the life of the project.

Section 4.10 Land Use Planning, Zoning, and Demographics

Potential impact due to inconsistency with local land use plans and policies for the site.	4.10-1: The Sanitation Districts would obtain a CUP for this project from the Los Angeles County Regional Planning Commission to meet the requirements of the County Zoning Ordinance.	LACSD	LA County Regional Planning Commission	Condition Use Permit	Prior to start of project.
	4.10-2: Finding of Conformance from the Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force that would certify that the proposed project is consistent with the Countywide Siting Element.	LACSD	LA County Solid Waste Management Committee/Integrated Waste Management Task Force	Finding of Conformance	Prior to issuance of SWFP.

Section 4.11 Public Health and Safety

Potential for a public health and safety impact due to flammability of landfill gas.	4.11-1: Maintain comprehensive landfill gas collection and monitoring system.	LACSD	LEA/SCAQMD	Inspections and routine reporting.	Over the life of the project.
Potential impact due to improper handling of hazardous wastes brought onto the landfill site.	4.11-2: Continue implementation of the full-time program to detect and appropriately manage any hazardous materials.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.11-3: Continue to enforce prohibition of disposal of hazardous materials.	LACSD	LEA	Monthly inspections.	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
Potential public health and safety or nuisance impact to the surrounding community due to the proliferation of vector species including rodents, seagulls, and insects as a result of landfill operation.	4.11-4: Maintain daily cover and landscaped slopes.	LACSD	LEA	Monthly inspections.	Over the life of the project.
	4.11-5: Control seagulls with lines suspended over operating area.	LACSD	LEA	Monthly inspections.	Over the life of the project.
Potential for interruption in landfill activities due to an emergency response situation.	4-11.6: Continue existing fire prevention and control measures.	LACSD	LACFD	Inspections.	Over the life of the project.
Potential hazards to visitors, customers, and workers due to unauthorized entry on to the site and/or daily activities.	4.11-7: Maintain comprehensive security program including site patrol to prevent access.	LACSD	LACSD	Monthly checklist.	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
<i>Section 5.19.2 Alternative Technologies</i>					
Potential for the landfill to discourage research for alternative technologies to landfilling.	5.19.2-1: The Sanitation Districts would commit to fund up to \$100,000 per year (\$1,000,000 over the life of the proposed project) for the purpose of studying alternative technologies that may be most appropriate for the South Coast Air Basin from an environmental and economic perspective. If a study identifies a technology that is deemed viable and appropriate to pursue on a pilot scale, the Sanitation Districts would consider additional funding. The Sanitation Districts would also form an Alternative Technology Advisory Committee composed of a representative from the Hacienda Heights Improvement Association, a staff person from the California Integrated Waste Management Board, an elected official who serves on the Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force whose city is served by the Puente Hills Landfill, and a staff person from the Sanitation Districts to provide input and review of this study effort.	LACSD	LACSD/LA Co DRP	Biennial Report	Over the life of the project.

Impact	Mitigation Measure	Party Responsible for Implementation	Party Responsible for Monitoring Implementation	Vehicle	Timing
5.19.3 The Property Value Claims Evaluation Program					
<p>al for the landfill to ely impact the property of homes immediately t to the landfill.</p>	<p>5.19.3-1: Condition No. 37 of the landfill's existing conditional use permit required that the Sanitation Districts establish a procedure to evaluate claims by residents of the Hacienda Heights area west of 7th Avenue for alleged loss of value of their property arising solely from the operation of the expansion of the landfill. The Property Value Claims Evaluation Program would continue under the proposed project. However, during the review of the Draft EIR, residents requested that the Sanitation Districts clarify the claims process for the Property Value Claims Evaluation Program. The Sanitation Districts would consult with representatives of the Hacienda Heights Improvement Association in a review of the claims process for the Property Value Claims Evaluation Program and consider revisions to the Program. Any revisions to the claims process approved by the Sanitation District No. 2 Board of Directors would be effective coincident with the new conditional use permit for the proposed project.</p>	LACSD	LACSD	Revision to Property Value Claims Evaluation Program	Over the life of the project.