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DIV. SAFETY OF DAMS
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DEPARTMENT OF WATER RESOURCES

DIVISION OF SAFETY DAMS

SAN CLEMENTE DAM SEISMIC SAFETY PROJECT

EXHIBIT D
Mitigation Monitoring and Reporting Program (MMRP)

MARCH 2011

California State Clearinghouse #2005091148

1.0 MITIGATION MONITORING AND REPORTING PROGRAM

1.1 Introduction

The *California Environmental Quality Act* (CEQA) requires the adoption of feasible mitigation measures to reduce the severity and magnitude of potentially significant environmental impacts associated with project development. The Final Environmental Impact Report/Environmental Impact Statement (Final EIR/EIS) for the San Clemente Dam Seismic Safety Project includes mitigation measures to reduce the potential environmental effects of the proposed project. The Project selected for construction by the Project Proponent, California American Water Company (CAW), is the Carmel River Reroute and Dam Removal (Alternative 3).

Monitoring of the implementation of adopted mitigation measures is required by Public Resources Code §21081.6. The Final EIR/EIS includes specific mitigation measures for Alternative 3 and describes the process whereby the mitigation measures would be monitored. The Final EIR/EIS was certified on December 31, 2007. Findings were made in Exhibit B as required under the CEQA Guidelines Section 15091(a)(1) which include mitigation measures. Following the Department's approval of the Findings, of the project and of this MMRP, the following mitigation measures that have been incorporated into the approved projects will be monitored in the manner specified by this MMRP.

1.2 Purpose

The purpose of the MMRP is to ensure compliance with all mitigation measures designed to mitigate or avoid potentially significant adverse environmental impacts that could result from implementation of Alternative 3, as identified in the Final EIR/EIS. Implementation of this MMRP shall be accomplished by the Project Proponent (CAW), and its agents. Project-specific mitigation measures will be implemented during the time frames specified in the MMRP, and reports will be generated to document implementation of the mitigation measures. Copies of all reports identified in the MMRP will be sent to the Department at the same time they are submitted to the designated regulatory agencies.

1.3 Summary Project Description

Alternative 3 involves reroute of the Carmel River and complete removal of the San Clemente Dam (SCD), which is owned and operated by CAW. The proposed improvements are intended to comply with the Department's Division of Safety of Dams (DSOD) requirements to address safety deficiencies and eliminate the risk of failure during a Maximum Credible Earthquake (MCE) or Probable Maximum Flood (PMF) event.

Components of Alternative 3 as proposed by CAW include:

- Dewater the plunge pool
- Remove approximately 380,000 cubic yards of sediment behind the SCD
- Permanently bypass a portion of the Carmel River by excavating a 450-foot channel between the Carmel River and San Clemente Creek
- Improve existing access roads
- Completely demolish the SCD and fish ladder
- Construct a new facility to divert water to replace the existing diversion at the SCD

This project is expected to take five years to complete, including environmental review, permitting, design, infrastructure improvements, sediment removal, bypass channel excavation, diversion dike construction, dam demolition, and creek channel reconstruction. A complete analysis of the components of Alternative 3 is located in Chapter 4 of the Final EIR/EIS. The Project purpose, need, and objectives are addressed in Chapter 1, Section 1.4 of the Final EIR/EIS.

1.4 Responsibilities and Duties

The Department would be responsible for ensuring that that mitigation measures are implemented during construction and restoration activities of Alternative 3. CAW and its agents shall be responsible for implementation of the mitigation measures and for the monitoring and reporting associated with those measures. In general, monitoring will consist of demonstrating that mitigation measures are implemented, and that the responsible entities monitored the implementation of the measures. CAW is responsible for ensuring that copies of all reports identified in the MMRP are sent to the Department at the same time they are submitted to the designated regulatory agencies.

1.5 Mitigation Monitoring and Reporting Plan Matrix

All project-specific mitigation measures included in the Final EIR/EIS would be monitored in conjunction with the MMRP for implementation of Alternative 3. The following MMRP matrix includes all of the applicable mitigation and monitoring information for implementation of Alternative 3, the Carmel River Reroute and Dam Removal Project.

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
4.1 Geology and Soils				
GS-2: Qualified Geotechnical Engineer or Engineering Geologist will conduct pre-construction surveys for design specifications, develop slope stabilizing BMPs for design specifications, and implement appropriate BMPs in SWPPP (Appendix K) such as, use matting or netting, mulch areas, seed after final grading, implement and maintain a revegetation program, adhere to permit requirements. A 10-year post-construction monitoring program will be executed.	Monitor project construction area for compliance with design specifications, slope stability, implementation of BMPs, and with the post-construction monitoring program. Monitoring results will be reported to CCRWQCB, Monterey County, USACE, CDFG, USEPA and DWR.	Applicant's Environmental Inspector and Project Engineer	During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submits written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR. Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.	USEPA, CCRWQCB, USACE, CDFG, Monterey County Planning and Building Inspection Department
GS-4: Implement erosion control methods and BMPs in SWPPP (Appendix K) including, no fill placed on canyon walls above river, use	Monitor and maintain erosion control methods. Inspect cut slopes to prevent failure. Monitor project construction	Applicant's Environmental Inspector and Project Engineer	During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with	USEPA, CCRWQCB, USACE, CDFG, Monterey County Planning and Building

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
retaining walls, adequately size and locate erosion control facilities, use filter fabrics, berms, hay bales and other erosion control methods, construct spill and spoil areas to prevent silt and clay erosion, control surface drainage from cut, fill, borrow, and disposal areas. Inspect cut slopes to prevent slope failures and temporary wall rock raveling, use blasting mats to capture and direct rock debris, erect temporary walls adjacent to existing access road to contain blasted rock, permanently revegetate disturbed areas immediately after completing road improvements. If necessary, implement temporary revegation and erosion control, install over-wintering protection to prevent undermining or washout, adhere to permit requirements.	area for compliance with implementation of BMPs, and with the post-construction monitoring program. Monitoring results will be reported to CCRWQCB, Monterey County, USACE, CDFG, USEPA and DWR.		no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR. Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.	Inspection Department
GS-5: Implement measures in the blasting plan such as controlling excessive vibration by limiting the size of charges and using charge delays. Follow procedures for safe storage, handling, loading, firing, and disposal of explosive materials. Implement blasting BMPs in the SWPPP (Appendix K) including use of blasting mats and fabric barriers.	Monitor compliance with blasting plan and report to Monterey County and DWR.	Applicant's Environmental Inspector and Project Engineer	Monitor throughout blasting activities. Monthly monitoring reports will be submitted to Monterey County.	Monterey County Planning and Building Inspection Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
4.2 Hydrology and Water Resources				
WR-2a: To minimize, following sediment excavation, construct geomorphically stable channels through the reservoir to the confluence of the San Clemente Creek and Carmel River channels. Construct channels with dimensions necessary to convey flows and sediment loads. Form a relatively wide river/creek valley that generally follows the 1921 contours along the upper reaches of the river/creek. Create a bankfull and thalweg channels with limited grading of the existing alluvial deposits. The bankfull channel will be sized to hold a two-year event. The low-flow channel will pass median annual flows.	Monitor compliance with design specifications, and report to CCRWQCB, USEPA, NMFS, CDFG, USFWS, Monterey County, and DWR.	Applicant's Environmental Inspector and Project Engineer	Monitor compliance with design specifications daily throughout construction. Submit monthly reports to agencies.	USFWS, CCRWQCB, USACE, CDFG, NMFS, and Monterey County Planning and Building Inspection Department
Implement bank stabilization measures including use of vegetative matter and plantings to limit erosion and sediment transport. A stream restoration plan will be prepared as part of final design for this alternative, and will include mitigation for the increase in sediment supply following construction.	Monitor bank stabilization and erosion control measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.		Bank stabilization and erosion control measures will be monitored daily during construction in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies.	

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Revegetate the hillsides to reduce the long-term potential for sediment erosion as discussed in Appendix K (SWPPP) and Appendix U (Botanical Resources Management Plan). Even with implementation of these measures, the impact will remain significant and unavoidable.	Monitor compliance with revegetation and erosion control measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.		Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR. Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly. Revegetation monitoring will begin immediately following planting. Monitoring shall be conducted during years 1, 2, 3, and 5 following planting. For areas in which trees, saplings, poles, wands, or acorns are planted, monitoring shall also be conducted in the year 10 following planting. Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.	
WR-2b: To minimize, implement water quality protection measures in SWPPP (Appendix K) including, design geomorphologically stable channels	Monitor compliance with design specifications, bank stabilization measures and revegetation measures and	Applicant's Environmental Inspector and Project Engineer	Bank stabilization and erosion control measures will be monitored daily during construction in areas under	USFWS, CCRWQCB, USACE, CDFG, NMFS, and Monterey County Planning and Building

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
following sediment excavation, form a wide river/creek channel following the 1921 contours along upper reaches. Create a bankfull channel designed to contain a two-year event; create a lowflow channel capable of passing median annual flows; limit grading when constructing channels. Stabilize channel banks using plant material, revegetation and other methods. Immediately after initial soil disturbance, install sediment barriers, straw bales, silt fences, sand bags, small catch basins, water bars, check dams, filter fabrics and conduct surface roughening to prevent sediment from entering river. Install diversion facility to settle turbid water before releasing downstream. Complete cleanup and installation of permanent erosion controls within 10 days of final construction. If reseeding or revegetating an area must be delayed more than 30 days prior to the perennial vegetation seeding season, then area must be mulched with 3 tons/acre of straw, or its equivalent, for a minimum of 100 feet on each side of the water body; adhere to permit requirements. Even with implementation of these measures, the impact will remain significant and unavoidable.	report to CCRWQCB, USEPA, NMFS, CDFG, USFWS, Monterey County, and DWR.		active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR. Revegetation monitoring will begin immediately following planting. Monitoring shall be conducted during years 1, 2, 3, and 5 following planting. For areas in which trees, saplings, poles, wands, or acorns are planted, monitoring shall also be conducted in the year 10 following planting. Reports will be submitted to the agencies after the conclusion of each	Inspection Department

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			annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.	
WR-3b: Both the reconstructed channel and the new bypass channel will be designed to allow fish passage. The design will include runs and pools that reflect a geomorphically stable channel and the passage requirements for the fish.	Monitor compliance with design specifications, and report to CCRWQCB, USEPA, NMFS, CDFG, USFWS, Monterey County, and DWR.	Applicant's Project Engineer and Environmental Inspector	Monitor compliance with design specifications daily throughout construction. Submit monthly reports to agencies.	USFWS, CCRWQCB, USACE, CDFG, NMFS, and Monterey County Planning and Building Inspection Department
WR-4b: No mitigation is available.				
WR-7: The point of diversion will be operated to maintain fish passage flows in Carmel River in January through May while also providing the necessary water supply to the downstream community. Additional mitigation for the change in the point of diversion may be added by the State Water Resources Control Board (SWRCB) during the permit process.	Monitor compliance with operation of point of diversion and report to the SWRCB, NMFS, CDFG, USFWS, and DWR.	Applicant's Environmental Inspector	Monitor compliance with fish passage flows daily January through May and report monthly to the agencies during this time period.	SWRCB, NMFS, CDFG, USFWS
4.3 Water Quality				
WQ-1: Implement erosion control and water quality protection and monitoring BMPs in SWPPP (Appendix K) including construct sediment barriers; use straw bales, silt fences, sandbags and water bars; adhere to permit requirements.	Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the	U.S. EPA, CCRWQCB USACE, CDFG, Monterey County Planning and Building Inspection Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
			agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB. Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.	
WQ-2: Implement erosion control and water quality protection and monitoring BMPs in SWPPP (Appendix K) including use small catch basins, filter fabrics, tarps and straw bales, maintain and monitor erosion control methods for effectiveness, adhere to permit requirements.	Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency	U.S. EPA, CCRWQCB USACE, CDFG, Monterey County Planning and Building Inspection Department

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			Response Branch and the CCRWQCB. Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.	
WQ-3: Implement erosion control and water quality BMPs and monitoring methods in the SWPPP and SPCC (Appendices K and R) including refuel construction equipment and vehicles in designated area where spills can be contained, store fuels in double-contained areas capable of storing 150 percent of fuel volume, conduct truck and cement washdown outside the high water mark area, check and maintain equipment operated within high water mark to prevent leaks, daily remove litter and debris and properly dispose of, store all construction equipment in staging area at end of each day, adhere to permit requirements. Vehicles containing over 150 gallons of fuel will have a spill prevention plan and spill cleanup materials.	Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB. Post-construction monitoring will be conducted for one year, and reports will be submitted to the agencies monthly.	U.S. EPA, CCRWQCB USACE, CDFG, Monterey County Planning and Building Inspection Department
WQ-5: Implement provisions of	Monitor compliance with	Applicant's	Daily monitor stream	USEPA, USACE,

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SWPPP (Appendix K) including designing pipeline for rapid transport of water around construction site and to minimize water heating; use white or reflective paint on pipeline; monitor stream temperatures, dissolved oxygen, and turbidity for NMFS and CDFG steelhead requirements; mix bypass flow with water from the upstream well point field if water temperatures in the Carmel River exceed criteria; adhere to permit conditions.	water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Environmental Inspector and Project Engineer	temperatures, D.O., and turbidity to meet NMFS and CDFG steelhead requirements. During construction: inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.	NMFS, CDFG, CCRWQCB, Monterey County Planning and Building Inspection Department
WQ-6: Install energy dissipation structures where bypassed project water is discharged to prevent scouring, sedimentation and turbidity; adhere to permit requirements.	Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be	USEPA, CCRWQCB, USACE, CDFG, Monterey County Planning and Building Inspection Department

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			submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.	
WQ-7: Implement erosion control and water quality protection and monitoring BMPs in SWPPP (Appendix K) including, use filter cloths or other fabric barriers, remove sand-sized and finer construction fill, and angular crushed rock, and dispose offsite at an appropriate location, adhere to permit conditions.	Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5-inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the	USEPA, CCRWQCB, USACE, CDFG, Monterey County Planning and Building Inspection Department

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			CCRWQCB.	
WQ-8: Implement erosion control and water quality protection and monitoring BMPs in SWPPP (Appendix K) including use settling basin and sedimentation tank located above ordinary high water zone, monitor discharge and receiving waters, return only clear water to stream, dispose of settled solids at appropriate site, discontinue discharge if effluent water quality doesn't meet criteria, implement additional filtration if necessary, adhere to all permit conditions.	Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB. Conduct post-construction monitoring until all water is discharged, settled solids are disposed of appropriately, and the settling basins are removed.	USEPA, CCRWQCB, USACE, CDFG, Monterey County Planning and Building Inspection Department
WQ-9: To minimize water quality degradation, reduce rate of reservoir drawdown to 0.5 feet, or less, per day. Even with implementation of this measure, the impact will remain	Monitor compliance with drawdown rate and water quality protection measures and report to CCRWQB, Monterey County, USACE,	Applicant's Environmental Inspector and Project Engineer	Monitor daily during reservoir drawdown.	USEPA, CCRWQCB, USACE, NMFS, USFWS, CDFG, Monterey County Planning and Building

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significant and unavoidable.	CDFG, and DWR.			Inspection Department
WQ-10: No mitigation is available.				
WQ-12: Implement erosion control and water quality protection and monitoring BMPs in SWPPP (Appendix K) including, use small catch basins, filter fabrics, tarps and straw bales. Use filter cloths or other fabric barriers, remove sand-sized, and finer construction fill, and angular crushed rock, and dispose offsite at an appropriate location. Refuel construction equipment and vehicles in designated area where spills can be contained; store fuels in double-contained areas capable of storing 150 percent of fuel volume. Conduct truck and cement washdown outside of high water mark, check and maintain equipment operated within high water mark to prevent leaks. Daily remove litter and debris and dispose of properly, store all construction equipment in staging area at end of each day. Vehicles containing over 150 gallons of fuel will have a spill prevention plan and spill cleanup materials. Adhere to all permit conditions.	Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB. Post-construction monitoring will be conducted for one year, and reports will be submitted to the agencies monthly.	USEPA, CCRWQCB, USACE, CDFG and Monterey County Planning and Building Inspection Department
WQ-14: Implement appropriate erosion control and water quality protection and monitoring BMPs in SWPPP and SPCC (Appendices K and R) including: use straw bales, silt fences, sandbags and water bars,	Monitor compliance with erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	During construction, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-	USEPA, CCRWQCB, USACE, NMFS, CDFG and Monterey County Planning and Building Inspection Department

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small catch basins, filter cloths or other fabric barriers, and tarps to prevent sediment, other particulate matter and chemicals from entering the Carmel River or other surface and groundwater resources. Use blasting mats, as appropriate, and place fabric barriers on the ground in active construction and demolition areas to catch sediment and cement debris. Contractor will store fuel, petroleum products, potentially hazardous materials and raw materials in secondary containment structures in the construction yard. Construction yard will be at least 100 ft from the edge of all water bodies, 200 ft from all groundwater wells and 400 ft from all public wells. Bulk storage tanks will not be placed in areas subject to flooding or erosion. Restrict refueling, maintenance of construction equipment, and transfer of materials to cement mixer trucks to upland areas at least 100 ft from the edge of all water bodies and 150 ft from any water supply wells. Only the Environmental Inspector can approve refueling or transfer of materials within the restricted areas. Fuel and service truck drivers shall be responsible for controlling fuel operations, material transfers and spill prevention. A containment vessel and plastic sheeting will be placed under equipment before materials are			hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.	

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removed or transferred. Equipment operators will be responsible for immediately reporting and mitigating spills. Contractor will maintain sufficient (at least 20 pounds) commercial absorbent and barrier materials at each construction yard. Equipment carrying over 150 gallons of fuel will carry individual spill prevention plans and will either carry materials sufficient to contain and clean up spills that may occur in transit or will be followed by a vehicle carrying sufficient response materials. All spills will be contained and cleaned up as soon as possible. Equipment will not be washed in any waterbody; at the end of each day, all construction equipment will be moved to the staging area above the high water mark. Litter and debris below the high watermark will be removed and appropriately disposed of daily; all other litter, debris, unused raw materials, equipment and supplies will be removed from the staging area at the end of the construction season.				
WQ-16: Implement BMPs in the SWPPP including stabilizing sediment slopes and disturbed areas with sediment barriers, straw mulch and silt fences, providing sediment collection features such as silt bales and sandbags, establishing sediment traps along toe of the pile and other disturbed areas, monitoring erosion control methods for effectiveness and	Monitor compliance with sediment slope stabilization, erosion control and water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	Slope stabilization, erosion control and water quality protection measures will be monitored daily during construction in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater	USEPA, CCRWQCB, USACE, CDFG and Monterey County Planning and Building Inspection Department

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maintaining methods throughout construction operations, distributing a 2-foot layer of organic soil on sediment slope at the end of construction operations and seed, annually monitoring effectiveness of erosion protection methods in bypassed arm of Carmel River at the end of each rainy season for a period of 10 years, repairing or improving any erosion problems prior to the following rainy season using methods such as reinforcing sediment pile with rock and/or additional revegetation with native plants or trees.	Monitor compliance with revegetation measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.		rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR. Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly. Revegetation monitoring will begin immediately following planting. Monitoring shall be conducted during years 1, 2, 3, and 5 following planting. For areas in which trees, saplings, poles, wands, or acorns are planted, monitoring shall also be conducted in the year 10 following planting. Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary	

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
			report will be submitted after year ten, the final year of monitoring.	
WQ-17: Implement BMPs in SWPPP and SPCC including installation of small catch basins, filter traps, tarps, or straw bale barriers. Refuel construction equipment and vehicles in paved, bermed, designated areas; store fuel in double-contained areas capable of holding 125 percent of the volume of fuel being stored. Conduct truck and cement equipment wash-down outside of ordinary channel high water mark. Check and maintain equipment daily to prevent leaks of fuel, lubricants, or other fluids to the stream. Remove litter and construction debris from within the high water mark daily and dispose of appropriately; remove litter and construction debris outside the high water mark at end of construction season. Move all construction equipment to staging area to prevent accidental spills; vehicles carrying over 150 gallons of fuel will have a spill prevention plan and materials required to clean up a spill. Use filter cloth or other fabric barrier placed on ground of active construction area to catch fine sediments, dispose of sand-sized and finer construction fill and any angular crushed rock at an appropriate off-site location. Use blasting mats to catch and direct flying rock and debris; dispose of blasted material at appropriate on-site location in Carmel	Monitor compliance with erosion control and water quality protection measures and blasting measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.		Compliance with the Blasting Plan will be monitored throughout blasting activities. Erosion control and water quality protection measures will be monitored daily during construction in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR.	USEPA, CCRWQCB, USACE, CDFG and Monterey County Planning and Building Inspection Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
River arm of reservoir.				
4.4 Fisheries				
FI-1: Limit tree and limb removal, implement measures to prevent roadfill from entering streams, revegetate streamsides, implement measures in SWPPP and Botanical Resources Management Plan (Appendices K and U). Use blasting mats and temporary walls to prevent rock fall and debris from entering river, implement BMPs to minimize sedimentation and turbidity, place roadfill on fabric or rubber liner, face roadfill with boulders or riprap sized too large for river to move during flood flows, implement erosion control and road drainage plan to eliminate aquatic impacts due to sedimentation and turbidity, revegetate disturbed areas. In the event of forecasted heavy participation, all temporary erosion control devices needing repair or installation will be immediately installed or repaired.	Monitor compliance with tree removal erosion control and water quality protection measures, and compliance with Blasting Plan and report to CCRWQB, Monterey County, USACE, CDFG, and DWR. Monitor compliance with revegetation measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	Compliance with the Blasting Plan will be monitored throughout blasting activities. Throughout construction, for erosion control, water quality protection and in temporary and permanent revegetated areas, inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, in all areas within 24-hours of each 0.5-inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Environmental Inspector will document all inspections in Environmental Daily Inspection Report Verbally report noncompliance within 24 hours from time applicant is first aware of aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in	USEPA, USACE, NMFS, USFWS, CCRWQCB, CDFG and Monterey County Planning and Building Inspection Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
			the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, and the CCRWQCB. Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly. Revegetation monitoring will begin immediately after planting. Following planting, monitoring will be conducted during years 1, 2, 3, and 5. For areas in which trees, saplings, poles, wands, or acorns are planted, monitoring will also be conducted in the year 10 following planting. Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after the final year of monitoring.	
FI-2: To minimize impacts, fish will be captured from affected reaches and relocated to sections of the Carmel River that would support them. Fish will be rescued by using block nets, seines and dip nets. Backpack electrofishing units will be used if bottom topography makes use of nets ineffective. Electrofishing would follow guidelines established by NMFS (2000).	Monitor fish capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, CCRWQB, and DWR.	Applicant's Environmental Inspector	Monitor fish capture and relocation efforts, daily, during water diversion and report to the agencies as specified in permits.	NMFS, USFWS, CCRWQCB, CDFG and MPWMD

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
Streamflow from the Carmel River upstream of SCD will be directed into flex pipes and inflowing water would be diverted around the plunge pool and the section of river to be dewatered. Once flow is diverted out of the channel, water levels would be reduced in the plunge pool and other sections of the river by pumping. Once water levels are lowered in a section of river, a fish rescue will begin and will continue until all possible fish are removed from the dewatered reach. Fish rescue will be completed prior to complete dewatering of a reach. Crews will search for stranded fish during the final phases of dewatering. Captured fish will be temporarily held in aerated coolers for transport. Rescued fish will be transported downstream and released into the Carmel River near the Carmel Valley Filter Plant or moved to the SHSRF if rearing capacity in the downstream release site is already at maximum capacity. Water quality would be protected during construction by implemented measures in the SWPPP. Even with implementation of these measures, the impact will remain significant and unavoidable.	Monitor compliance with water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.		Compliance with water quality protection BMPs, will be inspected daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.	
FI-4: To minimize impacts, fish traps will be installed upstream of diversion points to capture downstream migrating fish so they can be	Monitor fish capture and relocation efforts especially in terms of compliance with permit conditions and report	Applicant's Environmental Inspector	Monitor fish capture and relocation efforts, daily, during water diversion and report to the agencies as specified in permits.	NMFS, USFWS, CCRWQCB, CDFG, and MPWMD

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
transported around the diversion and continue downstream. Fish will be rescued from the diversion sites prior to constructing the diversion structures. Once the sheet piles are installed and the diversion pipes connected, water would be diverted into the pipes. Flow in the river channel downstream of the diversion will be reduced and the reduction in flow would facilitate fish rescues. A fish rescue would occur in the Carmel River and San Clemente Creek channels between the diversion point and the reservoir. Block nets would be set near the mouth of each stream to prevent fish from moving upstream of the reservoir. Once all fish are rescued from the channels, all flow would be directed into the bypass pipes. Even with implementation of these measures, the impact will remain significant and unavoidable.	to CDFG, USFWS, NMFS, CCRWQB, and DWR.			
FI-5: During reservoir dewatering, nets will be installed across the channels leading into the reservoir to prevent fish from swimming upstream into the Carmel River and San Clemente Creek. A fish rescue will occur in the reservoir during drawdown. Fish will be captured using large and small seines and dip nets. Backpack electrofishing units will be used if needed. Electrofishing would follow guidelines established by NMFS (2000). Rescued fish will be relocated to other suitable habitat downstream of	Monitor fish capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, CCRWQB, and DWR. Monitor compliance with water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector	Monitor fish capture and relocation efforts, daily, during water diversion and report to the agencies as specified in permits. Compliance with water quality protection BMPs, will be inspected daily in areas under active construction or equipment operation, weekly in areas with no active construction or	NMFS, USFWS, CCRWQCB, CDFG and MPWMD

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
OCRD in the Carmel River. During dewatering, water quality in the river would be protected by implementing measures in the SWPPP and SPCC (Appendices K and R). Even with implementation of these measures, the impact will remain significant and unavoidable.			equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.	
FI-6: To minimize impacts, fish rescue and relocation will be implemented. To control turbidity caused by construction near roads, stream crossings and bridges, implement erosion control methods and BMPs in SWPPP (Appendix K) including: Place no fill on canyon walls above river; use retaining walls; adequately size and locate erosion control facilities; use filter fabrics, berms, hay bales and other erosion control methods; monitor and maintain erosion control methods throughout implementation period; construct spill and spoil areas to	Monitor fish capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, CCRWQB, and DWR. Monitor compliance with water quality protection measures and report to CCRWQB, Monterey County, USACE, CDFG, and DWR.	Applicant's Environmental Inspector and Project Engineer	Monitor fish capture and relocation efforts, daily, during water diversion and report to the agencies as specified in permits. Erosion control and water quality protection measures will be monitored daily during construction in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the	USEPA, USACE, NMFS, USFWS, CCRWQCB, CDFG and Monterey County Planning and Building Inspection Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
prevent silt and clay erosion; control surface drainage from cut, fill, borrow, and disposal areas; inspect cut slopes to prevent slope failures and temporary wall rock raveling; use blasting mats to capture and direct rock debris; erect temporary walls adjacent to existing access road to contain blasted rock; permanently revegetate disturbed areas immediately after completing road improvements; if necessary, implement temporary revegation and erosion control; install over-wintering protection to prevent undermining or washout. To mitigate turbidity impacts during reservoir construction activities: moderate rate of reservoir drawdown by routing reservoir inflow through a pipeline; dewater reservoir to 510 feet then open lower level valve; regulate releases into lower river to minimize turbidity impacts; use mobile filter plant to treat highly turbid water before releasing to river. River temperatures downstream of dam should not increase by more than 1 to 2 degrees Celsius over water temperature upstream of the sheet-pile water diversion. To mitigate temperature impacts: schedule reservoir dewatering during cool part of year and during night and early part of day; as water level lowers and surface temperature rises, switch from			agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Noncompliance reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, the Central Coast Regional Water Quality Control Board (CCRWQCB), and DWR.	

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
surface releases to release from well points; reduce thermal loading in diversion pipes by placing pipes in shaded locations, burying pipe under a sand layer, covering with burlap or shade cloth, or painting pipe white if it cannot be shaded. To mitigate dissolved oxygen impacts: aerate water as it leaves the diversion pipes or use a mechanical aerator prior to releasing water into river; during reservoir drawdown, employ mechanism to aerate water as it descends from dam into the river; aerate water pumped from reservoir or released from well points prior to discharge into river.				
FI-10: Minimum flows are addressed in the current MOU between MPWMD, CDFG, NFMS, and CAW and are based on available upstream storage in Los Padres Reservoir, the water year type and water demand. A similar plan will be developed for this project in conjunction with NMFS Fisheries, CDFG, SWRCB, and the MPWMD. The plan will provide flows for steelhead habitat in the reach of the river affected by the new point of diversion. The point of diversion will be operated to maintain fish passage flows in Carmel River in January through May while also providing the necessary water supply to the downstream community. Additional mitigation for the change in the point of diversion may be added by the State	Monitor compliance with operation of point of diversion and report to the SWRCB, NMFS, CDFG, USFWS, and DWR.	Applicant's Environmental Inspector	Monitor compliance with fish passage flows daily January through May and report monthly to the agencies during this time period.	SWRCB, NMFS, CDFG, USFWS

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
Water Resources Control Board (SWRCB) during the permit process.				
FI-13: No mitigation is available.				
FI-15: To offset poor water quality at the Sleepy Hollow Steelhead Rearing Facility, during construction and operations into the future, an alternative supply, such as from the Russell Wells, will be provided.	Monitor water quality and report to MPWMD, CCRWQCB, and DWRs.	Applicant and Applicant's Environmental Inspector	Throughout construction and during future operations, from early summer to winter or late spring, monitor water quality daily during active construction, equipment operation or future project-related operations. Submit monthly reports to agencies.	MPWMD, CCRWQCB
4.5 Vegetation and Wildlife				
VE-1: Avoid populations of CNPS List 4 plant species to the extent possible	Report any losses to CNPS List 4 species.	Applicant and Applicant's Environmental Inspector	During construction.	CDFG, Monterey County
VE-2: Confine access improvement activities to north side of existing road; fence blue oak stand on south side of road to prevent construction encroachment. Implement measures in Botanical Resources Management Plan (Appendix U) including: under supervision of a qualified botanist, replace up to half the removed oaks with seedlings or potted oaks at 3:1 ratio; replant trees that don't survive; derive all plant material from Carmel Valley area oak populations. To ensure long-term survival, take remedial action such as irrigation or protection from browsing animals per Monterey County Code Title 16, Chapter 16.6; provide or acquire a	Monitor compliance with vegetation protection measures and report to Monterey County, CDFG, and DWR. Monitor revegetation plantings and report to Monterey County, CDFG, and DWR.	Applicant and Applicant's Environmental Inspector	Monitor activities daily during construction for construction encroachment impacts. During construction, conduct monitoring annually on all revegetated areas and areas and areas identified for potential erosion and sedimentation problems; implement monitoring immediately following planting; monitor during years 1,2,3, and 5 following planting; for areas in which trees, saplings, poles, wands, or acorns are planted, also monitor in year 10 following planting. Reports will be submitted to the	Monterey County, CDFG

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
conservation easement sufficient to mitigate at least half the oak tree loss per Monterey County Code. Adhere to all permit conditions.			agencies after the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring.	
VE-3: Design project features to minimize loss of native vegetation; limit damage to roots of trees; implement erosion and sedimentation control methods; minimize alteration of flows and subsequent bank erosion; limit dust deposition on roadside vegetation; avoid alteration of hydrology supporting riparian forest habitat on adjacent floodplain; irrigate alders on reservoir fringe during reservoir dewatering; irrigate riparian vegetation above bypass outflow. Implement pre-construction and construction BMPs; all personnel involved in project shall attend environmental training addressing erosion and sediment control requirements, proper clearing and grading methods, and importance of protecting vegetation resources. To the maximum extent possible, use existing disturbed area or areas of annual grassland as a staging area; use fencing to prevent encroachment of vehicles or other project activity into native habitat or into the dripline of native trees outside of designated areas.	Monitor compliance with vegetation protection measures and report to Monterey County, CDFG, and DWR.	Applicant's Environmental Inspector	During construction, conduct monitoring annually on all revegetated areas and areas identified for potential erosion and sedimentation problems; implement monitoring immediately following planting; monitor during years 1,2,3, and 5 following planting; for areas in which trees, saplings, poles, wands, or acorns are planted, also monitor in year 10 following planting. Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A summary report will be submitted after year ten, the final year of monitoring. Throughout construction, for erosion control, water quality protection and temporary and permanent revegetated areas inspect as follows: inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, in all areas within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting.	Monterey County, CDFG, CCRWQCB, USACE

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
Under supervision of a qualified botanist, replace up to half the removed oaks with seedlings or potted oaks at 3:1 ratio; replant trees that don't survive; derive all plant material from Carmel Valley area oak populations. To ensure long-term survival, take remedial action such as irrigation, or protection from browsing animals per MCC Title 16, Chapter 16.6. Provide or acquire a conservation easement sufficient to mitigate at least half the oak tree loss per Monterey County Code. Implement measures in the Botanical Resources Management Plan (Appendix U); adhere to permit requirements.	Monitor revegetation plantings and report to Monterey County, CDFG, and DWR.		Reports of daily inspections will be submitted monthly to the agencies. Environmental Inspector shall document all inspections in Environmental Daily Inspection Report. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB. Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.	
VE-4: Implement erosion and sedimentation control BMPs in SWPPP (Appendix K) for all grading, filling, vegetation clearing or excavating; design road widening to avoid placing fill above canyon walls; with a qualified hydrologist, design all road widening and improvements to avoid or minimize alteration of existing drainage patterns; employ appropriate erosion control technology; conduct construction work during dry season; avoid excavation and operation of construction vehicles within tree driplines; implement dust control measures including watering unpaved	Monitor compliance with vegetation protection measures and erosion and sediment control BMPs and report to Monterey County, CDFG, CCRWQCB, and DWR. Monitor revegetation plantings and report to Monterey County, CDFG, and DWR.	Applicant's Environmental Inspector, Hydrologist, Revegetation Specialist	During construction, conduct monitoring annually on all revegetated areas and areas identified for potential erosion and sedimentation problems; implement monitoring immediately following planting; monitor during years 1,2,3, and 5 following planting; for areas in which trees, saplings, poles, wands, or acorns are planted, also monitor in year 10 following planting. Reports will be submitted to the agencies after the conclusion of each annual monitoring period. A	Monterey County, CDFG, CCRWQCB, USACE

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
access roads; with qualified revegetation specialist, revegetate disturbed areas with seed mix containing as high a percentage of native seeds as possible; implement remedial actions if revegetation is unsuccessful or if significant erosion and sedimentation is observed during monitoring; implement strategies in Botanical Resources Management Plan (Appendix U); adhere to all permit conditions.			summary report will be submitted after year ten, the final year of monitoring. Throughout construction, for erosion control, water quality protection and temporary and permanent revegetated areas inspect as follows: inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, in all areas within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Environmental Inspector shall document all inspections in Environmental Daily Inspection Report. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch, and the CCRWQCB. Post-construction monitoring will be conducted for ten years, and reports will be submitted to the agencies monthly.	

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
WI-2: Conduct preconstruction surveys followed by consultation with agencies. Other measures include establishing buffer zones or installation of exclusion barriers under the supervision of a qualified bat biologist. If possible, schedule structure removal after juvenile bats are weaned and capable of flight as determined by a qualified bat biologist.	Report preconstruction survey results to CDFG, USFWS, and DWR.	Applicant's Environmental Inspector	Report survey results to the agencies immediately upon survey completion.	USFWS, CDFG
WI-3: To minimize, conduct pre-construction surveys; rescue and relocate CRLF, western pond turtle, and other aquatic special-status species; erect barrier to prevent movement of frogs back into work area; have biological monitor accompany crew during excavation and installation of barrier to prevent harm to species active along barrier route; restore CRLF habitat sites; implement CRLF Population Monitoring and Bullfrog Eradication Program in cooperation with the USFWS and CDFG. Capture and relocate western pond turtles to nearby downstream ponds or pools; erect construction fencing to prevent turtles from returning to construction area. For duration of cofferdam construction, use biological monitor to facilitate safe removal and relocation of special-status species such as CRLF, western pond turtles, and two-striped garter snake. Two-striped garter snakes will be relocated at least one-quarter mile downstream to	Report results of preconstruction surveys to CDFG, USFWS, and DWR. Monitor rescue and relocation, and bullfrog eradication activities and report results to CDFG, USGWS, and DWR.	Applicant's Field Contact Representative, or Authorized Biologist	Report results of preconstruction surveys immediately after completion. Report encounters with special-status species to authorized biologists; report finding dead or injured special-status species to CDFG and USFWS within 3 days. Within 60 days of completing construction activities for the season, submit special-status species report.	CDFG, USFWS

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
prevent predation on other special status species. Implement provisions in Appendix V (Protection Measures for Special-Status Species). Even with implementation of these measures, the impact will remain significant and unavoidable.				
WI-4: Conduct protocol-level surveys for California red-legged frog, and other special-status aquatic species on Carmel River to about one-half mile downstream of the Old Carmel River Dam; if work on dam is interrupted for more than two weeks, repeat initial surveys; notify USFWS if CRLF are observed; USFWS-approved biologist will capture and relocate CRLF to nearby, suitable habitat; if necessary, survey and relocation programs will be modified to comply with USFWS Biological Opinion; consult with USFWS if other special-status species are located; adhere to permit conditions.	Report results of protocol-level surveys to CDFG, USFWS, and DWR. Monitor rescue and relocation, and bullfrog eradication activities and report results to CDFG, USGWS, and DWR.	Applicant's Environmental Inspector, or Authorized Biologist	Report results of preconstruction surveys immediately after completion; comply with monitoring and reporting schedule as specified in the USFWS Biological Opinion and CDFG consultation.	CDFG, USFWS
WI-8: Conduct vegetation removal between Aug 1-Mar 1 after completion of preconstruction surveys. If vegetation must be removed outside of this timeframe, contact regulatory agencies; conduct additional preconstruction surveys; implement avoidance measures for special-status and protected (MBTA and raptor) species, including isolating active nests in a species-specific buffer area and avoiding area until birds have	Report results of preconstruction surveys to CDFG, USFWS, Monterey County, and DWR. Monitor vegetation removal. If removal must occur outside of the August 1 through March period, conduct additional surveys and report results to CDFG, USFWS, Monterey County, and DWR.	Applicant's Field Contact Representative, or Environmental Inspector	Report results of all survey immediately after completion. Report encounters with special-status species and protected birds to authorized biologists; report finding dead or injured special-status species and birds within 3 days. Within 60 days of completing construction activities for the season, submit special-status species report; comply with monitoring and reporting schedule as specified by	USFWS, CCRWQCB, CDFG, CDFG and Monterey County Planning and Building Inspection Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
fledged.			USFWS and CDFG.	
WI-9: Minimize tree removal to number necessary to allow construction access; use GPS to map and flag known active woodrat nests along route; conduct surveys to identify other active woodrat nests; plan routes to avoid woodrat nests; have bat expert conduct preconstruction surveys of rock outcrops and other formations to determine presence of possible roosts; use GPS to map roosts; route construction to avoid roosts; implement erosion and sedimentation control BMPs (SWPPP, Appendix K) to avoid and minimize impacts to CRLF, foothill yellow-legged frogs, western pond turtles and two-striped garter snake along Carmel River; implement strategies in the Protection Measures for Special-status Species (Appendix V); comply with permit conditions.	Monitor compliance with measures in Appendix V and erosion and sediment control measures and report to CDFG, USFWS, CCRWQCB, Monterey County and DWR. Report preconstruction survey results to USFWS, CDFG, and DWR.	Applicant and Applicant's Environmental Inspector	Report preconstruction survey results to agencies immediately after survey completion. Throughout construction, for erosion control, water quality protection and temporary and permanent revegetated areas inspect as follows: inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, in all areas within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Reports of daily inspections will be submitted monthly to the agencies. Environmental Inspector shall document all inspections in Environmental Daily Inspection Report. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB. Post-construction monitoring will	USFWS, CDFG, CCRWQCB, and Monterey County Planning and Building Inspection Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
			be conducted for ten years, and reports will be submitted to the agencies monthly.	
WI-10: To minimize, obtain and comply with permits from USFWS and CDFG. Implement provisions in the Protection Measures for Special Status Species (Appendix V). Under direction of a biologist permitted and approved by CDFG, USFWS and NMFS to capture and relocate CRLF, western pond turtles, two-striped garter snakes and other species, conduct preconstruction surveys for special status and native species consistent with recent USFWS and CDFG guidance. Notify agencies if special status species are observed; capture and relocate special status aquatic species after April 15; install erosion control fencing or similar barrier to minimize movement back into work areas; clear vegetation by hand; restore CRLF habitat; conduct CRLF population monitoring and predator control program in compliance with Fish and Game Code throughout project construction and continuing for 2 years after completion of project. If monitoring shows increase in bullfrog population and decrease in CRLF numbers in mitigation areas, eradication program may continue another 2 years. Transport and relocate other native wildlife to secure habitats; continue these mitigation measures throughout reservoir drawdown, vegetation	Monitor capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, and DWR. Monitor bullfrog and CRLF populations and report to USFWS and CDFG.	Applicant and Applicant's Environmental Inspector	Monitor capture and relocation efforts, daily, and report to the agencies as specified in permits. Monitor and report results of bullfrog and CRLF populations as specified in the bullfrog eradication program.	NMFS, USFWS, CDFG

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
clearing, and sediment excavation operations. Even with implementation of these measures, the impact will remain significant and unavoidable.				
WI-11: To minimize, obtain and comply with permits from USFWS and CDFG; implement provisions in the Protection Measures for Special Status Species; clear vegetation with handheld tools (except "weedwhackers") prior to sediment excavation and rescue/relocation of CRLF; vegetation clearing will be limited to no lower than 12 inches above grade; cleared vegetation moved to an off-site location; under direction of a biologist permitted and approved by CDFG, USFWS and NMFS to capture and relocate CRLF, western pond turtles, two-striped garter snakes, Coast Range newt and other species, after hand clearing is complete, conduct preconstruction surveys for special status and native species consistent with recent USFWS and CDFG guidance; notify agencies if special status are observed; capture and relocate species after April 15; install erosion control fencing or similar barrier to minimize movement back into work areas; after ten days pass in which no special status aquatic adults, juveniles, hatchlings or larvae are detected, machine operations and mechanical vegetation removal can commence; after mechanical	Conduct preconstruction surveys and report to CDFG, USFWS, NMFS, and DWR. Monitor vegetation clearing activities and report to CDFG, USFWS, and DWR. Monitor capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, and DWR. Monitor bullfrog and CRLF populations and report to USFWS and CDFG.	Applicant and Applicant's Environmental Inspector	Report preconstruction survey and vegetation clearing results to agencies immediately after completion of activities. Immediately notify agencies if special-status species are detected during vegetation clearing. Monitor capture and relocation efforts, daily, and report to the agencies as specified in permits. Monitor and report results of bullfrog and CRLF populations as specified in the bullfrog eradication program.	NMFS, USFWS, CDFG

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
vegetation removal is complete, aquatic habitat will be resurveyed for presence of special status species; if no adults, juveniles, hatchlings, or larvae are present, sediment excavation can commence; repeat procedures at beginning of each construction season; restore CRLF habitat; conduct CRLF population monitoring and predator control program in compliance with Fish and Game Code throughout project and continuing for 2 years after completion of project; if construction monitoring shows increase in bullfrog population and decrease in CRLF numbers in mitigation areas, eradication program may continue another 2 years; transport and relocate other native wildlife to secure habitats; continue these mitigation measures throughout reservoir drawdown, vegetation clearing, and sediment excavation operations. Even with implementation of these measures, the impact will remain significant and unavoidable.				
WI-13: To minimize, obtain and comply with permits from USFWS and CDFG; implement provisions in the Protection Measures for Special Status Species (Appendix V). Under direction of a biologist permitted and approved by CDFG, USFWS and NMFS to capture and relocate special status aquatic and terrestrial species including CRLF, Coast Range newt,	Monitor compliance with measures in Appendix V and erosion and sediment control measures and report to CDFG, USFWS, and DWR. Conduct preconstruction surveys and report to CDFG, USFWS, NMFS, and DWR.	Applicant and Applicant's Environmental Inspector	Report preconstruction survey results to agencies immediately after completion of activities. Immediately notify agencies if special-status species are detected.	NMFS, USFWS, CDFG

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
western pond turtle and Monterey duskyfooted woodrat, conduct preconstruction surveys for special status and native species consistent with most recent USFWS and CDFG guidance; notify agencies if special status species are observed; capture and relocate special status aquatic species after April 15; install erosion control fencing or similar barrier to minimize movement back into work areas; clear vegetation by hand; restore CRLF habitat; conduct CRLF population monitoring and predator control program in compliance with Fish and Game Code throughout project construction and continuing for 2 years after completion of project; if monitoring shows increase in bullfrog population and decrease in CRLF numbers in mitigation areas, eradication program may continue another 2 years; transport and relocate other native wildlife to secure habitats; continue these mitigation measures throughout reservoir drawdown, vegetation clearing, and sediment excavation operations. Even with implementation of these measures, the impact will remain significant and unavoidable.	Monitor capture and relocation efforts especially in terms of compliance with permit conditions and report to CDFG, USFWS, NMFS, and DWR. Monitor bullfrog and CRLF populations and report to USFWS and CDFG		Monitor capture and relocation efforts, daily, and report to the agencies as specified in permits. Monitor and report results of bullfrog and CRLF populations as specified in the bullfrog eradication program.	
4.6 Wetlands				
WET-1: Implement revegetation immediately after completion of Phase 1 construction; create or restore lost riparian and fringe palustrine emergent wetlands, similar in function	Monitor compliance with measures in Appendix U and report to CDFG, USACE, Monterey County and DWR.	Applicant and Applicant's Environmental Inspector	During construction, conduct monitoring annually on all revegetated areas and areas identified for potential erosion	USACE, CDFG, Monterey County

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
(streamside habitat) at a 3:1 ratio; grade as necessary. Under supervision of qualified botanist, place cuttings or seedlings in appropriate habitat; obtain seedlings from Carmel Valley area populations; replant seedlings as necessary to ensure long-term survival; for Other Waters of the U.S., may also improve stream channel habitat on Carmel River upstream of project area or along other appropriate streams in watershed; obtain conservation easement or mitigation banking credits at a 3:1 ratio on similar, unaffected and fully functional wetlands in the watershed; comply with specifications of the USACE 404 permit. Implement provisions in the Botanical Resources Management Plan (Appendix U).	Monitor revegetation plantings and report to USACE, Monterey County, CDFG, and DWR.		and sedimentation problems. Monitor and record success of wetland restoration, annually. At end of three years, submit status report to USACE. Report shall include percent cover achieved and will identify all problem areas. If the performance criteria are not met, status reports will be submitted annually until criteria are met. Monitor replacement plantings during years 1, 2, 3 and 5 following planting; for areas where trees, saplings, poles, or wands are planted, also monitor in year 10 after planting;	
WET-2: Construct cofferdams of clean, river-run gravel; unless flows are less than 50 cfs, install cofferdams no earlier than May and remove in Oct; fill plunge pool staging area with spawning size gravel, cover with visqueen liner and a layer of crushed rock or sand; remove surface layer and liner when construction is complete; to minimize loss of wetlands and riparian vegetation, upgrade plunge pool access road to a one lane, two-way road with turnouts. Implement revegetation immediately after completion of Phase 1 construction; create or restore riparian and fringe palustrine wetlands similar in function at 3:1 ratio; grade as necessary; under	Monitor compliance with measures in Appendix U and report to CDFG, USACE, Monterey County, and DWR. Monitor revegetation plantings and report to USACE, Monterey County, CDFG, and DWR.	Applicant's Environmental Inspector, Hydrologist, or Revegetation Specialist	During construction, conduct monitoring annually on all revegetated areas and areas identified for potential erosion and sedimentation problems. Monitor and record success of wetland restoration, annually. At end of three years, submit status report to USACE. Report shall include percent cover achieved and will identify all problem areas. If the performance criteria are not met, status reports will be submitted annually until criteria are met. Monitor replacement plantings	Monterey County, CDFG, CCRWQCB, USFWS, USACE

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
supervision of a qualified botanist, plant cuttings or seedlings in appropriate habitat; obtain seedlings from Carmel Valley area populations; replant seedlings as necessary to ensure long-term survival. For Other Waters of the U.S., may also improve stream channel habitat on Carmel River upstream of project area or along other appropriate streams in watershed; obtain conservation easement or mitigation banking credits at 3:1 ratio on similar, unaffected and fully functional wetlands in watershed; comply with specifications of the USACE 404 permit; implement provisions in the Botanical Resources Management Plan (Appendix U).			during years 1, 2, 3, and 5 following planting; for areas where trees, saplings, poles, or wands are planted, also monitor in year 10 after planting; implement monitoring immediately following planting; monitor during years 1,2,3, and 5 following planting; for areas in which trees, saplings, poles, wands, or acorns are planted, also monitor in year 10 following planting.	
WET-3: Implement erosion and sedimentation control BMPs in SWPPP (Appendix K) for all grading, filling, vegetation clearing or excavating; design road widening to avoid placing fill above canyon walls; with a qualified hydrologist, design all road widening and improvements to avoid or minimize alteration of existing drainage patterns; employ appropriate erosion control technology; conduct construction work during dry season; avoid excavation and operation of construction vehicles within tree driplines; implement dust control measures including watering unpaved access roads; with qualified revegetation specialist, revegetate disturbed areas with seed mix containing as high a percentage of	Monitor compliance with measures in Appendix U and report to CDFG, USACE, Monterey County, and DWR. Monitor compliance with erosion and sedimentation control BMPs in Appendix K and report to Monterey County, CDFG, USACE, CCRWQCB, and DWR.	Applicant's Environmental Inspector, Hydrologist, or Revegetation Specialist	Report compliance with measures in Appendix U as specified in Botanical Resources Management Plan. Throughout construction, for erosion control, water quality protection and in temporary and permanent revegetated areas inspect as follows: inspect daily in areas under active construction or equipment operation, weekly in areas with no active construction or equipment operation, in all areas within 24-hours of each 0.5 inch or greater rainfall event, soil and weather conditions permitting. Environmental Inspector shall	Monterey County, CDFG, CCRWQCB, USFWS, USACE

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
native seeds as possible; implement remedial actions if revegetation is unsuccessful or if significant erosion and sedimentation is observed during monitoring; implement strategies in Botanical Resources Management Plan (Appendix U).			document all inspections in Environmental Daily Inspection Report. Reports of daily inspections will be submitted monthly to the agencies. Verbally report noncompliance within 24 hours from time applicant is first aware of the circumstance and submit written report within 5 days. Reports will be made to the appropriate agency identified in the SWPPP and SPCC (Appendices K and R), to the U.S. EPA Emergency Response Branch and the CCRWQCB.	
4.7 Air Quality				
AQ-1: To minimize, all active construction areas and access roads will be watered at least twice daily. All grading will be prohibited during winds greater than 15 mph. Chemical soil stabilizers will be applied to disturbed construction areas that have been unused for at least four consecutive days. Non-toxic binders will be applied to exposed areas after cut and fill operations and to hydroseeded areas. Haul trucks will maintain at least 2 feet of freeboard. All trucks hauling dirt, sand, or loose materials will be covered. Disturbed areas will be seeded or planted with a vegetative ground cover as soon as possible. Inactive storage piles will be covered with tarps. A sign will be posted giving the telephone number and person to	Monitor compliance with measures to reduce emissions from construction equipment and road dust and report to the MBUAPCD and DWR.	Applicant's Environmental Inspector, MBUAPCD monitoring stations	Monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.	MBUAPCD

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
contact regarding dust complaints. This person would respond to complaints and take corrective action within 48 hours. The phone number of the Monterey Bay Unified Air Pollution Control District (MBUAPCD) would be visible to ensure compliance with Rule 402 (Nuisance). Even with implementation of these measures, the impact will remain significant and unavoidable.				
AQ-2: To minimize, crushed rock will be used as a final base on unpaved roads Unpaved or unrocked roads, parking areas, and staging areas will be watered. The amount and frequency of water application would be adjusted for weather conditions to maintain a minimum average soil moisture ratio of 5, for 95 percent or greater dust suppression. Water quality BMPs will be implemented to avoid introducing sediment into the river and creeks. Non-toxic chemical stabilizers or dust suppressants will be applied to unpaved haul roads. As traffic and weather allow, as necessary, a street sweeper will be regularly used to prevent sediment accumulation on paved roads. A 15-mph speed limit will be enforced on all vehicles on unpaved haul roads. The Applicant will implement practical and cost-effective PM_{10} controls for access roads, including paving and coarse graveling, in addition to periodic watering, along with practical and cost-	Monitor compliance with measures to reduce dust and other emissions during access road improvements and report to the MBUAPCD and DWR.	Applicant's Environmental Inspector, MBUAPCD monitoring stations	Monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.	MBUAPCD

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
effective NO_X controls for diesel vehicles and equipment, such as Viscon18. To the maximum extent possible, state-certified construction equipment in the PERP, pre-approved for use in any district by the Air Resources Board, will be used. The Applicant will comply with all MBUAPCD permit requirements. Even with implementation of these measures, the impact will remain significant and unavoidable.				
AQ-3: To minimize, crushed rock will be used as a final base on unpaved service roads to minimize dust generation in the vicinity of the Sleepy Hollow subdivision, and to make the roads more drivable. Unpaved or unrocked roads, parking areas, staging areas and the batch plant will be watered. The amount and frequency of water application will be adjusted for weather conditions to maintain a minimum average soil moisture ratio of 5, for 95 percent or greater dust suppression. Water quality BMPs will be implemented to avoid introducing sediment into the river and creeks. Non-toxic chemical stabilizers or dust suppressants will be applied to unpaved haul roads. As traffic and weather allow, a municipal street sweeper will be used to prevent accumulation on Center Court Place and affected portions of San Clemente Drive. A 15-mph speed limit will be enforced on all unpaved haul roads.	Monitor compliance with measures to reduce dust and other emissions during project-related travel, and report to the MBUAPCD and DWR.	Applicant's Environmental Inspector, MBUAPCD monitoring stations	Monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.	MBUAPCD

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
The Applicant will implement practical and cost-effective PM_{10} controls for access roads, including paving and coarse graveling, in addition to periodic watering, along with practical and cost-effective NO_X controls for diesel vehicles and equipment, such as Viscon 18. To the maximum extent possible, state-certified construction equipment in the PERP, pre-approved for use in any district by the Air Resources Board, will be used. The Applicant will comply with all MBUAPCD permit requirements. Even with implementation of these measures, the impact will remain significant and unavoidable.				
4.8 Noise				
NO-1: To minimize, limit operations to daytime working hours. Even with implementation of this measure, the impact will remain significant and unavoidable.	Monitor compliance with daytime working hours restriction and report to Monterey County and DWR.	Applicant's Environmental Inspector	Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.	Monterey County
NO-2: To minimize, use quiet design construction equipment; install enclosure panels when required on stationary equipment; eliminate unnecessary idling; implement good maintenance and lubrication procedures; implement timing restrictions such as limiting operations to daytime working hours; limit construction worker passenger vehicle access during construction season to Monday-Saturday, 7:00 a.m.-7:00 p.m.	Monitor compliance with measures to reduce noise generated during access road improvements and report to Monterey County and DWR.	Applicant's Environmental Inspector	Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.	Monterey County

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
and truck deliveries of construction materials to Monday-Saturday between 8:00 a.m. and 6:00 p.m; enforce California Vehicle Code prohibitions against faulty or modified loud exhaust systems; enforce reduced speed limits to 15 mph on unpaved roads. Even with implementation of these measures, the impact will remain significant and unavoidable.				
NO-3: To minimize, use quiet design construction equipment; install enclosure panels when required on stationary equipment; eliminate unnecessary idling; implement good maintenance and lubrication procedures; implement timing restrictions, such as limiting operations to daytime working hours; limit construction worker passenger vehicle access during construction season to Monday-Saturday, 7:00 a.m.-7:00 p.m. and truck deliveries of construction materials to Monday-Saturday between 8:00 a.m. and 6:00 p.m; enforce California Vehicle Code prohibitions against faulty or modified loud exhaust systems; enforce reduced speed limits to 15 mph on unpaved roads. Even with implementation of these measures, the impact will remain significant and unavoidable.	Monitor compliance with measures to reduce noise from construction-related travel including travel associated with mobilization, materials, and workers, and report to Monterey County and DWR.	Applicant's Environmental Inspector	Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.	Monterey County
4.9 Traffic and Circulation				
TC-1: To minimize, implement trip	Monitor compliance with	Traffic/Transportation	Monitoring will occur daily, during	Monterey County Public

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
reduction plan for construction workers including use of an off-site park and ride area; prepare Traffic Coordination and Communication Plan to define specific schedules for truck deliveries and worker shifts to avoid peak commute and school bus traffic; use resident Traffic/Transportation Coordinator; prepare and implement Traffic Safety Plan to address vehicle size and speed, coordinate travel routes, coordinate with emergency response entities, determine need for flag persons and traffic and speed limit signs. Develop vehicle and driver inspection program, prepare Construction Management Plan per Monterey County Public Works Department specifications that would reduce the number of project-related vehicles, reduce interaction between construction and other vehicles, and promote public safety. During periods when double-trailer trucks are used, flagging personnel will direct traffic at the Carmel Valley Road/Cachagua Road intersection; the Traffic Control Plan will include Carmel Valley Road between Carmel Village and Cachagua Road and the Cachagua Road and the Jeep Trail; to assist with traffic control and ingress and egress, transport trucks will be escorted when traveling between Carmel Valley Road and the Jeep Trail; at some locations on Cachagua Road opposing traffic	measures to reduce impacts related to having additional traffic on the area road network and report to the Monterey County Public Works Department and DWR.	Coordinator	construction. Quarterly reports will be submitted to the County throughout construction.	Works Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
will be stopped to facilitate haul operations; traffic impact fees will be paid to Monterey County. Even with implementation of these measures, the impact will remain significant and unavoidable.				
TC-3a: Implement trip reduction plan for construction workers including use of an off-site park and ride area; prepare Traffic Coordination and Communication Plan; prohibit night and weekend truck deliveries; restrict delivery of major items to weekdays between 0800 and 1500; avoid peak commute and school bus traffic; use resident Traffic/Transportation Coordinator; prepare and implement Traffic Safety Plan to address vehicle size and speed, coordinate travel routes, coordinate with emergency response entities, and to determine need for flag persons and traffic and speed limit signs; post flagging personnel when double-trailer trucks are used. Develop vehicle and driver inspection program, prepare Construction Management Plan per Monterey County Public Works Department specifications to reduce the number of project-related vehicles, reduce interaction between construction and other vehicles, and promote public safety. Widen Cachagua Road. Pay traffic impact fee to Monterey County; coordinate with Monterey County Public Works Department to fund enforcement to	Monitor compliance with measures to reduce the potential for increased accident rates on Carmel Valley Road and report to the Monterey County Public Works Department and DWR.	Traffic/Transportation Coordinator	Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction; reports to the County, quarterly.	Monterey County Public Works Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
monitor speed and truck inspections.				
TC-3b: To minimize, implement trip reduction plan for construction workers including use of off-site park and ride area; prepare Traffic Coordination and Communication Plan to schedule truck deliveries and worker shifts to avoid peak commute and school bus traffic; use resident Traffic/ Transportation Coordinator; prepare and implement Traffic Safety Plan to address vehicle size and speed, coordinate travel routes, coordinate with emergency response entities, determine need for flag persons and traffic and speed limit signs; develop vehicle and driver inspection program; prepare Construction Management Plan per Monterey County Public Works Department specifications to reduce the number of project-related vehicles, reduce interaction between construction and other vehicles, and promote public safety. Pay traffic impact fee to Monterey County. Even with implementation of these measures, the impact will remain significant and unavoidable.	Monitor compliance with measures to reduce the potential for increased accident rates on San Clemente Drive and report to the Monterey County Public Works Department and DWR.	Traffic/Transportation Coordinator	Daily, during construction. Submit reports to the County, quarterly.	Monterey County Public Works Department
TC-4: Increase sight distance looking east from Cachagua Road by constructing improvements at Carmel Valley Road/Cachagua Road intersection; lengthen sight distance looking east by relocating stop bar on Cachagua Road approach to Carmel Valley Road; perform physical	Monitor compliance with measures to reduce the inadequate visual sight distance at intersections potential and report to the Monterey County Public Works Department and DWR.	Traffic/Transportation Coordinator	Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.	Monterey County Public Works Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
improvements at intersection such as regrading embankment on south side of Carmel Valley Road east of Cachagua Road; construct improvements at Cachagua Road/ Jeep Trail intersection to increase sight distance looking north from Jeep Trail approach; improve sight distance by lowering embankment elevation on east side of Cachagua Road north of the Jeep Trail or by relocating the intersection of Jeep Trail to increase the sight distance looking north.				
TC-6: To minimize, implement a trip reduction plan for construction workers including use of off-site park and ride area; prepare Traffic Coordination and Communication plan to schedule truck deliveries and worker shifts to avoid peak commute and school bus traffic; use a resident Traffic/Transportation Coordinator; prepare and implement a traffic safety plan to address vehicle size and speed, coordinate travel routes, coordinate with emergency response entities, determine need for flag persons and traffic and speed limit signs. Develop vehicle and driver inspection program, prepare a Construction Management Plan per Monterey County Public Works Department specifications to reduce the number of project-related vehicles, reduce interaction between construction and other vehicles, and promote public safety. Pay a traffic impact fee to Monterey County.	Monitor compliance with measures to reduce the effect of increased traffic on residential neighborhoods and report to the Monterey County Public Works Department and DWR.	Traffic/Transportation Coordinator	Monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.	Monterey County Public Works Department

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
Even with implementation of these measures, the impact will remain significant and unavoidable.				
TC-7: Prior to construction, coordinate with local agencies to determine which roads are best to use; restore affected roads to pre-project condition immediately after construction is complete.	Coordinate with Monterey County Public Works Department and formally report to them concerning the best roads to use. After construction, coordinate with the Monterey County Public Works Department to immediately restore roads to pre-project conditions.	Traffic/Transportation Coordinator	Coordinate with, and report to the Monterey County Public Works Department before and post-construction.	Monterey County Public Works Department
4.10 Cultural Resources				
CR-1: Complete National Historic Preservation Act Section 106 process; monitor construction activities at known archaeological sites; if complete avoidance of sites isn't possible during construction and maintenance, conduct complete archaeological evaluation and historical documentation of sites; if historic properties are discovered, avoid, minimize or mitigate impacts; if buried cultural resources are discovered, halt construction operations and contact federal lead agency; implement an archaeological monitoring program consisting of: preconstruction assessment and construction training, construction monitoring, site recording and evaluation, mitigation planning, curation, tribal discussion, report of findings, and review and approval of	Monitor compliance with measures to reduce the effect of ground disturbance on archaeological sites and report to the SHPO and DWR.	Applicant	Monitor throughout construction, submit reports to the SHPO according to the Section 106 MOA.	California State Parks Office of Historic Preservation/State Historic Preservation Officer

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
any erosion control or revegetation procedures in the vicinity of a known significant site prior to implementing procedures.				
CR-2: Use rigid support of structures to minimize ground movement.	Monitor compliance with measures to reduce damage to historic structures due to construction-related vibrations and report to the SHPO and DWR.	Applicant	Monitor throughout construction, submit reports to the SHPO according to the Section 106 MOA.	California State Parks Office of Historic Preservation/State Historic Preservation Officer
CR-3: Implement dust reduction measures including: spraying water on ground surface prior to ground disturbance; use crushed rock as final base for unpaved service roads; use watering trucks and adequate water on unpaved areas; enforce 15 mph speed limit on unpaved haul roads; implement other PM10 reduction BMPs; adopt Air Quality dust reduction BMPs; adhere to permit conditions.	Monitor compliance with measures to reduce introduction of dirt, or to cause unintended damage to historic structures during construction-related and demolition activities and report to the SHPO and DWR.	Applicant	Monitor before, during and post-construction. Submit reports to the SHPO according to the Section 106 MOA. Air quality/dust control monitoring will occur daily, during construction. Monthly reports will be submitted to the MBUAPCD throughout construction.	California State Parks Office of Historic Preservation/State Historic Preservation Officer, MBUAPCD
CR-4: To minimize, complete Section 106 process including recordation of OCRD and associated fish ladder and SCD and associated fish ladder in the form of NPS regulated HABS/HAER level documentation prior to any construction; additional measures could include interpretive displays, development of an educational program on the facilities and a professional publication on the historic resources. Even with implementation of these measures, the impact will remain	Monitor compliance with measures to reduce impacts associated with demolition of the OCRD and fish ladder (historic properties), and demolition activities and report to the SHPO and DWR.	Applicant	Monitor during and post-construction. Submit reports to the SHPO according to the Section 106 MOA.	California State Parks Office of Historic Preservation/State Historic Preservation Officer

MITIGATION MEASURE	MONITORING OR REPORTING ACTION	MONITORING OR REPORTING ENTITY	TIMING	ENFORCEMENT ENTITY
significant and unavoidable.				
CR-5: To minimize, prepare NRHP nomination form for Historic District, complete Historic Preservation Management Plan, complete 106 process and MOA. Even with implementation of these measures, the impact will remain significant and unavoidable.	Monitor compliance with measures to reduce impacts associated with altering the character of the San Clemente Dam Historic Resource District and report to the SHPO and DWR.	Applicant	Monitor during and post-construction. Submit reports to the SHPO according to the Section 106 MOA.	California State Parks Office of Historic Preservation/State Historic Preservation Officer
CR-6: To minimize, prior to construction, complete photographic documentation; use design, materials, and construction methods that are compatible with the existing historic resources. Even with implementation of these measures, the impact will remain significant and unavoidable.	Monitor compliance with measures to reduce impacts associated with loss of visual integrity of the San Clemente Dam Historic Resource District and report to the SHPO and DWR.	Applicant	Monitor before and during construction. Submit reports to the SHPO according to the Section 106 MOA.	California State Parks Office of Historic Preservation/State Historic Preservation Officer
4.12 Recreation				
REC-2: To minimize, operation of heavy earth-moving equipment and other construction equipment would occur during normal working hours. Air quality, noise and traffic mitigations described in Sections 4.7.3, 4.8.3 and 4.9.3 in the Final EIR/EIS will also be implemented to minimize disruption of the use of the Jeep Trail. Even with implementation of these measures, the impact will remain significant and unavoidable.	Monitor compliance with measures to reduce impacts to air, noise, and traffic associated with heavy equipment use of the Jeep Trail and report to Monterey County, the MBUAPCD, and DWR.	Applicant and Applicant's Environmental Inspector	Air Quality monitoring will occur daily, during construction, and will be reported monthly to the MBUAPCD throughout construction. Noise and traffic monitoring will occur daily, during construction. Quarterly reports will be submitted to the County throughout construction.	Monterey County and MBUAPCD

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