MONTEREY REGIONAL WATER SUPPLY PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
SURFACE WATER RESOURCES								
Impact 6.1-1	Project construction activities could cause erosion and increase stormwater runoff resulting in an adverse water quality impact.	**Mitigation Measure 4.1-1**: The project sponsor will implement the following: • For construction activities in the proximity to the Elkhorn Slough, Moro Cojo Slough, and old Salinas River, the project sponsor will implement additional erosion control measures such as stabilizing slope, preventing or minimizing stream bank or channel disturbance through selection of narrowest crossing location, or placing work areas at least 50 feet from the stream channel (CASQA, 2003). • The project sponsor will develop and implement a monitoring program as required under the General Construction Permit. The project sponsor will require the contractor to conduct inspections of the construction site prior to anticipated storm events and after the actual storm events. During extended storm events, the inspections will be conducted after every 24-hour period. The inspections will be conducted to identify areas contributing to stormwater discharge, to evaluate whether measures to reduce pollutant loadings identified in the SWPPP are adequate and properly installed and functioning in accordance with the General Construction Permit, and to determine whether additional control practices or corrective maintenance activities are needed.	X	X	X	MCWD	MCWD implements additional erosion control measures for sensitive areas and develops and implements an inspection program and corrective actions. MCWD signs off that: 1. Erosion control plan completed 2. Monitoring program for construction completed 3. Monitoring is conducted as required	1, 2. Erosion control plan and monitoring program developed before construction 3. Inspections conducted prior to anticipated storm events and after the actual storm events
Impact 6.1-2	Excavation during construction could require dewatering of shallow groundwater. The water discharge, if contaminated, could adversely affect surface water.	**Mitigation Measure 4.1-2:** The project sponsor shall implement the following measures: • Notify the RWQCB prior to discharge of the extracted groundwater and provide the results of the tests performed; and • Conduct treatment of the extracted groundwater as required under the permit issued by the RWQCB.	X	X	X	MCWD	MCWD notifies the RWQCB prior to discharge of the extracted groundwater and provides the results of the tests performed and implements permit requirements. MCWD signs off that: 1. Notification is provided 2. Treatment is done as required	1. Notify before start of discharge 2. Treat as needed during extraction of groundwater
Impact 6.1-4	The project discharge associated with the proposed Regional Desalination Facility could adversely affect water quality in Monterey Bay.	**Mitigation Measure 4.1-4c:** The project sponsor shall develop and implement an aeration system (e.g. that would provide dissolved oxygen in the discharge of 5.0 mg/L or higher). The project sponsor shall review the aeration system prior to implementation.	X			MCWD	1. MCWD coordinates with MRWPCA on the interconnection of the MCWD outfall facilities with the MRWPCA outfall facilities.	1. Coordination occurs during design.
BIOLOGICAL RESOURCES								
Impact 6.4-1	Construction and operation of the new facilities associated with the Regional Project may	**Mitigation Measure 4.4-1:** The Project proponent shall carry out the following measures (either directly or through provisions incorporated	See Mitigation Measures 4.4-					

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	adversely affect species identified as rare, threatened, endangered, candidate, sensitive, or other special status by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	into contract specifications for the Project), for those facilities and pipeline reaches identified as potentially supporting special-status species. In the specific measures which follow, the term "qualified biologist" for surveys is defined as an individual who shall possess, at a minimum, a bachelor's degree in biology, ecology, wildlife biology or closely related field and has demonstrated prior field experience using accepted resource agency techniques for the survey prescribed, and who possesses all appropriate USFWS, NMFS, and CDFG permits. The term "biological monitor" or "qualified biological monitor" is defined as holding similar educational credentials to those of a qualified biologist and who has functioned as an environmental inspector or monitor on at least two construction projects within the preceding two years.	1a through 4.4-1f					
Impact 6.4-1	Impact 6.4-1: Construction and operation of the new facilities associated with the Regional Project may adversely affect species identified as rare, threatened, endangered, candidate, sensitive, or other special status by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	**Mitigation Measure 4.4-1a: *Avoid harm or harassment of special-status invertebrates (Smith's Blue Butterfly)*.** Smith's blue butterflies could occur in several portions of the project area where their host plant occurs: • Sourcewater Intake Facility Transmission Main North This Federally-listed species lives the majority of its lifecycle within an area of about 100 m in diameter. The majority of the year, this species occurs only as pupae, in the leaf litter below the host plant. Impacts to host plants could potentially destroy pupae, and result in a loss of habitat. Smith's blue butterfly could occur in the North Marina area (near intake/discharge facilities). The following mitigation measures will reduce impacts to less-than-significant levels: (1) Conduct Focused Surveys for Host Buckwheat Plants. Floristic surveys of all suitable habitat for coast buckwheat and seacliff buckwheat should be conducted by a qualified biologist prior to the permitting phase of the project. Maps depicting the results of these surveys shall be prepared. (2) Avoid Impacts to Host Plants and Pupae. Construction of project elements should be planned to avoid mapped habitat for Smith's blue butterfly. (3) If impacts to host plants are unavoidable, surveys should be conducted to determine if Smith's blue butterflies are present, following USFWS guidelines. If no butterflies are found, no further mitigation is required. If Smith's blue butterflies are found, consultation will be required with the USFWS to determine the necessary level of compensatory mitigation. Compensatory mitigation may include removal and safe relocation of host plants.			X	MCWD	MCWD signs off that: 1. Focused Surveys that comply with USFWS guidelines are conducted 2. Survey results and recommendations are incorporated into construction specifications 3. Compensatory mitigation, if needed is implemented before construction	1. Conduct surveys during design; if no plants are found no further work is needed 2. If necessary, during design adjust siting of project elements to avoid plants. If avoidance is not possible, survey for butterflies before construction; if no butterflies are found no further work is needed. 3. If butterflies are found, perform compensatory mitigation before construction starts

MONTEREY REGIONAL WATER SUPPLY PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
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Impact 6.4-1	Construction and operation of the new facilities associated with the Regional Project may adversely affect species identified as rare, threatened, endangered, candidate, sensitive, or other special status by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	**Mitigation Measure 4.4-1c:** ***Avoid harm or harassment of California red-legged frogs, California tiger salamanders, and Santa Cruz long-toed salamanders***. These species could occur in aquatic habitats in the Project area. These include: • Desalination Plant • Intake Pipelines Construction in and around aquatic habitats could result in direct take of individuals (e.g., being crushed by heavy machinery) and loss of habitat by changing vegetation composition. To determine whether any special-status aquatic species would be affected by any given Project element, surveys shall be conducted at the specific Project site (following standard U.S. Fish and Wildlife Service [USFWS] protocol in the case of red-legged frogs and salamanders). If it is determined that any of these Federally listed species is present, formal consultation with the USFWS would be necessary. Construction of Project elements shall be planned to avoid habitat for special-status aquatic species such as the California red-legged frog. If construction will occur adjacent to potential habitat, impacts would be avoided or minimized as follows: (1) Prior to any construction activities, the boundaries of construction areas will be clearly delineated with orange plastic construction fencing to prevent workers or equipment from inadvertently straying from the construction area. All construction personnel, equipment, and vehicle movement shall be confined to designated construction areas and connecting roadways. Movement of construction and personal vehicles shall be prohibited outside designated construction areas or off established roadways. (2) Prior to the onset of any ground-disturbing activities, exclusion fencing will be established around areas of potentially occupied habitat, as determined by a qualified biologist. Exclusion fencing shall consist of silt-fencing or similar material at least 36 inches in height that is buried at least six inches in the ground to prevent incursion under the fence. This fence shall be surveyed each morning before construction to verify that no frogs or other special status aquatic species have entered the construction site. (3) Before any construction activities begin, a biologist approved by the U.S. Fish and Wildlife Service (USFWS) shall conduct a training session with construction personnel to describe the California red-	X		X	MCWD	MCWD signs off that: 1. Focused Surveys that comply with USFWS guidelines are conducted 2. Survey results and recommendations are incorporated into construction specifications 3. Measures to protect aquatic species, if needed, are implemented before construction	1. Conduct surveys during design; if no habitat for frogs or salamanders is found no further work is needed 2. If necessary, during design adjust siting of project elements to avoid habitat 3. If avoidance of habitat is not possible, implement measures to protect aquatic species before and during construction.

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		legged frog and its habitat, the specific measures being implemented to minimize effects on the species, and the boundaries of the construction area. (4) All food-related trash items shall be enclosed in sealed containers and removed daily from the Project site to discourage the concentration of potential predators in habitat potentially occupied by California red-legged frogs.						
Impact 6.4-1	Construction and operation of the new facilities associated with the Regional Project may adversely affect species identified as rare, threatened, endangered, candidate, sensitive, or other special status by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	**Mitigation Measure 4.4-1d: *Avoid direct Mortality and/or Disturbance of Special-Status Plant Populations.*** Floristic surveys of all suitable habitat for special-status plants shall be conducted prior to the permitting phase of the Project. Maps depicting the results of these surveys shall be prepared for use in final siting design. Sensitive plant species are widespread, and could occur at the following sites: Desalination Plant, Transmission South, and Intake Pipeline. Project facilities shall be sited to avoid impacts on special-status plants and their required habitat constituent elements, when reasonably feasible. Unavoidable impacts on listed plants species, including Seaside bird's-beak, Yadon's wallflower, sand gilia, Monterey spineflower, and Yadon's rein orchid, require formal consultation with the U.S. Fish and Wildlife Service (USFWS) and the California Department of Fish and Game (CDFG). Impacts on non-listed species would likely involve informal consultation. Special-status plant occurrences located within temporary construction areas shall be fenced or flagged for avoidance prior to construction, and a biological monitor shall be present to ensure compliance with off-limits areas. Seasonal avoidance measures (i.e., limited operating periods based on timing of annual plant dormancy), combined with topsoil salvage and site restoration, may be acceptable in some cases. Compensation for permanent loss of special-status plant occurrences, in the form of land purchase or restoration, must be provided to the level acceptable to the resource agencies. Compensatory measures will be determined on a case-by-case basis by the lead agency in consultation with the USFWS and the CDFG. Compensation for loss of special-status plant populations typically involves the purchase and permanent stewardship of known occupied habitat or the restoration and reintroduction of populations in degraded, unoccupied habitat. Restoration or reintroduction may be located on- or off-site. In the latter case, a Site Restoration Plan shall be required, to be prepared by the Applicant and approved by the project sponsor, USFWS, and the CDFG as appropriate. It shall include the following:	X	X	X	MCWD	MCWD signs off that: 1. Focused Surveys, complying with CDFG protocol are conducted 2. In the event that no special-status plants are present, MCWD documents findings in a letter to the appropriate resources agency and reports information regarding present special-status plants to CNDDB 3. Results and recommendations are incorporated into contract specifications, as needed 4. If special-status plants are present MCWD coordinates with CDFG and or USFWS, complies with recommendations, and develops a compensation plan 5. MCWD submits annual monitoring reports to resource agencies that include photo documentation, planting specifications, site layout map	1. Conduct surveys during design; if no special-status plants are found no further work is needed 2. Reports to agencies are submitted after surveys are done 3. If necessary, during design adjust siting of project elements to avoid special-status plants and incorporate protection measures in specifications 4. If avoidance of special-status plants is not possible, implement measures to protect special-status plants before and during construction 5.Compensatory mitigation, if needed, would be implemented before construction, if possible; site restoration activities will occur after construction

MONTEREY REGIONAL WATER SUPPLY PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
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		(1) The location of areas to restore lost plant populations; (2) A description of propagation and planting techniques to be employed in the restoration effort; plants to be impacted shall have their seeds collected so that the seeds can be planted within the restoration areas; (3) A time table for implementation of the restoration plan, including pilot-phase studies; (4) A monitoring plan and performance criteria (Performance criteria may vary across sites and species, but is intended to provide proof of restoration success. This is normally a majority of the plants surviving a minimum of five years.); (5) A description of remedial measures to be performed if initial restoration measures are unsuccessful in meeting the performance criteria; and, (6) A description of the site maintenance activities to follow restoration activities; these may include weed control, irrigation, and control of herbivory by livestock and wildlife. Site maintenance activities shall be altered or intensified when necessary to meet performance criteria.						

MONTEREY REGIONAL WATER SUPPLY PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM

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Impact 6.4-1	Construction and operation of the new facilities associated with the Regional Project may adversely affect species identified as rare, threatened, endangered, candidate, sensitive, or other special status by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	**Mitigation Measure 4.4-1e: *Avoid Construction Impacts on Burrowing Owls*.** Burrowing owl habitat may occur at the following project locations: • Desalination Plant • Transmission Main South • Intake Pipeline Preconstruction surveys for burrowing owls shall be completed in potential habitat in conformance with California Department of Fish and Game (CDFG) protocols, and no more than thirty days prior to the start of construction. If no burrowing owls are located during these surveys, no additional action would be warranted. However, if breeding or resident owls are located on or immediately adjacent to the site, the following mitigation measures shall be implemented. A 250-foot buffer, within which no new activity is permissible, shall be maintained between Project activities and nesting burrowing owls. This protected area shall remain in effect until August 31 or, at the discretion of the California Department of Fish and Game (CDFG) and based upon monitoring evidence, until the young owls are foraging independently. If construction will directly impact occupied burrows, eviction outside the nesting season may be permitted pending evaluation of eviction plans and receipt of formal written approval from the CDFG authorizing the eviction. No burrowing owls shall be evicted from burrows during the nesting season (February 1 through August 31).	X	X	X	MCWD	MCWD signs off that: 1. Measures for protection of owls are incorporated into project construction specifications 2. Pre-construction surveys are conducted 3. Protective measures are implemented 4. Daily log.is kept documenting maintenance of buffer zone around nesting burrowing owls	1. Measures are included in specifications during design 2. Surveys conducted no more than thirty days prior to the start of construction; if no owls are found, no further action is needed 3,4. Protection measures are implemented during construction
Impact 6.4-1	Construction and operation of the new facilities associated with the Regional Project may adversely affect species identified as rare, threatened, endangered, candidate, sensitive, or other special status by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	**Mitigation Measure 4.4-1f: *Avoid Construction Impacts on Other Special-Status Birds*.** Special-Status birds (see Table 4.4-2 and *Other Special-Status Bird Species,* above) could occur on or near any of the sites not within developed areas. These bird species typically nest in California between March 1 and September 1. If construction-related work is scheduled outside of this nesting season, nesting birds will not be impacted and no further mitigation is necessary. If construction must occur during the breeding season (March 1 to September 1), a qualified ornithologist shall conduct preconstruction surveys no more than fifteen days prior to the initiation of disturbance wherever suitable habitat occurs for special-status birds. If active nests are found to be present within or adjacent to work sites during the breeding season, a construction-free buffer around the active nests shall be established. For raptors, this buffer is typically 250 feet; for other birds it may be as narrow as 20 feet. An ornithologist in consultation with the California Department of Fish and Game (CDFG) shall determine the width of this buffer. This buffer shall be maintained until nesting has	X	X	X	MCWD	MCWD signs off that: 1. Measures for protection of nesting birds are incorporated into project construction specifications 2. Pre-construction surveys are conducted, 3. Protective measures complying with CDFG guidelines are implemented, as needed 4. Daily log.is kept documenting maintenance of buffer zone around nesting birds	1. Measures are included in specifications during design 2. If construction must occur during the breeding season (March 1 to September 1), a qualified ornithologist shall conduct preconstruction surveys no more than fifteen days prior to the initiation of disturbance wherever suitable habitat occurs for special-status birds, if no nesting birds are found no further action is needed 3.4. Protection measures are implemented during construction

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			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
		been completed and the young have fledged.						
Impact 6.4-2	Construction and operation of the new facilities associated with the Regional Project may adversely affect riparian habitat or other sensitive natural community identified in local or regional plans, policies regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.	**Mitigation Measure 4.4-2b:** ***Avoid construction Impacts on Sensitive Upland Habitats.*** Sensitive Upland Habitat, predominantly Central Maritime Chaparral, has been identified at the following project locations: • Transmission Main South Construction activities, facilities, and conveyance systems shall be sited in a manner that avoids sensitive upland habitats to the maximum extent feasible. Sensitive upland habitats shall be preserved where possible through facility siting within degraded or non-native vegetation. Sensitive areas shall be flagged for avoidance to minimize the possibility of inadvertent encroachment during construction. Construction staff shall be educated on the sensitive habitats located within and adjacent to the Project's footprint, and a biological monitor shall be present to ensure compliance with off-limits areas. When avoidance is not feasible during construction activities; sensitive upland habitats temporarily disturbed during construction activities shall be quantified and appropriate restoration strategies shall be set forth in a Habitat Restoration Plan which shall be developed in consultation with the U.S. Fish and Wildlife Service (USFWS) and the California Department of Fish and Game (CDFG), and the resource agencies. The Plan shall include the following elements: specific location of restoration site, details on soil preparation, seed collection, planting, maintenance, and monitoring, and quantitative success criteria. At a minimum, temporarily disturbed areas shall be restored by the Applicant to the natural (preconstruction) conditions, which may include the following actions: salvage and stockpiling of topsoil from maritime chaparral, central dune scrub, and oak woodland; regrading of disturbed sites with salvaged topsoil; and revegetation with native, locally collected species. Where restoration is not feasible (i.e., the impact is permanent), the Applicant shall purchase and/or preserve similar undisturbed habitat off-site, or restore nearby disturbed areas at a ratio to be determined by the USFWS, CDFG, and other responsible resource agencies with jurisdiction over the project area.		X		MCWD	MCWD signs off that: 1. Measures for protection of habitat are incorporated into project construction specifications 2. Pre-construction surveys are conducted, and avoidance areas are flagged as needed 3. Construction staff have been trained to avoid sensitive habitats 4. Avoidance areas are monitored during construction 5. Restoration plan, if necessary, is developed in consultation with USFWS and CDFG. 6. Restoration is complete	1. Measures, including restoration plans, are included in specifications during design 2. Surveys conducted and avoidance areas flagged prior to the start of construction 3,4. Protection measures are put in place before construction and implemented and monitored during construction 5. Restoration is developed before construction. 6. Restoration plan is completed after construction
Impact 6.4-5	Construction and operation of the new facilities associated with the Regional Project could conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.	**Mitigation Measure 4.4-5:** The project sponsor shall perform a comprehensive survey to identify, measure, and map trees subject to County tree removal ordinances (oak trees greater than 6 inches in diameter) and North County Area Plan and Carmel Valley Master Plan ordinances (all native trees greater than 6 inches in diameter), as well as landmark trees. Prior to the removal of protected trees, the project sponsor shall obtain tree removal permits or approvals for lost native and landmark trees and arrange mitigation with appropriate public and resource agencies. The standards for tree replacement shall be	X	X	X	MCWD	MCWD signs off that: 1. Tree survey is completed 2. Tree protection measures incorporated in specifications 3. Necessary permits, acquired 4. Mitigation consistent with permit	1. Tree survey completed during design 2.Tree protection measures incorporated in specifications during design 3. Permits acquired before start of construction 4. Any off-site mitigation acquired before construction and on-site restoration completed after construction.

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
		stipulated in the tree permit reviewed and approved by the local agency. For example, Monterey County Zoning Ordinance - Title 21 stipulates submittals including: ▪ A site plan sufficient to identify and locate the trees to be removed, other trees, buildings, proposed buildings, and other improvements; ▪ The purpose for the tree removal; ▪ A description of the species, diameter two feet above ground level, estimated height, and general health of the trees to be removed. ▪ A description of the method to be used in removing the tree(s); ▪ A statement showing how trees not proposed for removal are to be protected during removal or construction; ▪ Proposed visual impact mitigation measures the applicant intends to take (if appropriate). Size, location and species of replacement trees, if any, shall be indicated in the site plan.					conditions is implemented.	
GEOLOGY, SOILS AND SEISMICITY								
Impact 6.5-1	Large earthquakes would be expected to damage the proposed facilities, impairing and/or disrupting their intended operations if not engineered to withstand such ground shaking.	**Mitigation Measure 4.5-1:** A California licensed geotechnical engineer or engineering geologist will conduct geotechnical investigations of all Project facilities and pipeline alignments prior to the final design and prepare recommendations applicable to foundation design, earthwork, backfill and site preparation prior to or during the project design phase. The investigations will specify seismic and geologic hazards including potential ground movements and co-seismic effects (including liquefaction). The recommendations of the geotechnical engineer will be incorporated into the design and specifications in accordance with California Geological Survey Special Publication 117 and shall be implemented by the construction contractor. The construction manager will conduct inspections and certify that all design criteria have been met in accordance with the California Building Code as well as applicable City and County ordinances.	X	X	X	MCWD	MCWD signs off that: 1. Geotechnical investigations are complete and design criteria are incorporated into construction specifications 2. Inspections are conducted and design criteria have been met.	1. During final design of Project Facilities 2. Inspections during and at the completion of construction.
Impact 6.5-2	Proposed pipelines and facilities could incur damage as a result of underlying soil properties (subsidence, high shrink-swell potential, and corrosivity).	**Mitigation Measure 4.5-2:** All project elements and pipeline facilities will comply with applicable policies and appropriate engineering investigation practices necessary to reduce the potential detrimental effects of expansive soils, and corrosivity. Appropriate geotechnical studies will be conducted by California licensed geotechnical engineers or engineering geologists using generally accepted and appropriate	X	X	X	MCWD	MCWD signs off that: 1. Geotechnical investigations are complete and design criteria are incorporated into construction specifications	1. During final design of Project Facilities 2. Inspections during and at the completion of construction.

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
		engineering techniques for determining the susceptibility of the sites to unstable, weak or corrosive soils in accordance with the most recent version of the California Building Code. A licensed geotechnical engineer or engineering geologist will prepare recommendations applicable to foundation design, earthwork, and site preparation prior to or during the project design phase. Recommendations will address mitigation of site-specific, adverse soil and bedrock conditions that could hinder development. Project engineers will implement the recommendations and incorporate them into project specifications. Geotechnical design and design criteria will comply with the most recent version of the California Building Code (CBC) and applicable local construction and grading ordinances. Once appropriately designed and subsequently constructed, in accordance with local and state building code requirements, the resultant improvements will have the structural fortitude to withstand the potential hazards of expansive soils or corrosivity without significant damage.					2. Inspections are conducted and design criteria have been met.	
Impact 6.5-4	Potential injury and/or damage resulting from earthquake induced landslide.	**Mitigation Measure 4.5-4:** During the design phase for all Regional Project components that require ground-breaking activities, the project sponsor will perform site-specific design-level geotechnical evaluations which will include slope stability conditions and provide recommendations to reduce and eliminate any potential slope hazards, if any, in the final design and if necessary, throughout construction. For all pipelines located in landslide hazard areas, appropriate piping material with the ability to deform without rupture (e.g. ductile steel) will be used. For all other facilities a geotechnical evaluation will be conducted and the geotechnical evaluations will include detailed slope stability evaluations, which could include a review of aerial photographs, field reconnaissance, soil testing, and slope stability modeling. Facilities design and construction will incorporate the slope stability recommendations contained in the geotechnical analysis conducted by California licensed geotechnical engineers or engineering geologists. Final slope stabilization measures, determined by the licensed geotechnical engineer or engineering geologist in accordance with California Building Code requirements, may include, without limitation, one or more of the following: • Appropriate slope inclination (not steeper than 2 horizontal to 1 vertical) • Slope terracing • Fill compaction • Soil reinforcement	X	X	X	MCWD	MCWD signs off that: 1. Geotechnical investigations are complete and design criteria are incorporated into construction specifications 2. Inspections are conducted and design criteria have been met.	1. During final design of Project Facilities 2. Inspections during and at the completion of construction.

Impact No.	Impact	Mitigation Measure	Applicable Site(s): Desal plant	Applicable Site(s): TM South: thru Ft Ord	Applicable Site(s): intake	Monitoring and Reporting Program: Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Program: Monitoring and Reporting Actions	Monitoring and Reporting Program: Implementation Schedule
		• Surface and subsurface drainage facilities • Engineered retaining walls • Buttresses • Erosion control measures Mitigation measures included in the geotechnical report will be incorporated into the project construction specifications and become part of the project.						
Impact 6.5-5	Potential facility damage resulting from a major earthquake in areas susceptible to liquefaction.	**Mitigation Measure 4.5-1**	X	X	X	MCWD	See above under Mitigation Measure 4.5-1	
HAZARDS AND HAZARDOUS MATERIALS								
Impact 6.6-1	Excavation and grading for the project could expose construction workers, the public, or the environment to hazardous materials that may be present in excavated soil or groundwater.	**Mitigation Measure 4.6-1a:** Within one year prior to construction of facilities requiring excavation of more than 50 cubic yards of soil, the contractor shall retain a qualified environmental professional to conduct a Phase I Environmental Site Assessment in conformance with ASTM Standard 1527-05 to evaluate subsurface conditions that could be expected during construction. For all pipeline alignments, including the Transmission Main South and the Intake Pipeline, the contractor shall retain a qualified environmental professional to update the environmental database review to identify environmental cases, permitted hazardous materials uses, and spill sites within one-quarter mile of the pipeline alignment. Regulatory agency files will be reviewed for those sites that could potentially affect soil and groundwater quality within the project alignment. If these preliminary environmental reviews indicate that a release of hazardous materials could have affected soil or groundwater quality at a project site, the contractor shall retain a qualified environmental professional to conduct a Phase II environmental site assessment to evaluate the presence and extent of contamination at the site, in conformance with state and local guidelines and regulations. If the results of the subsurface investigation(s) indicate the presence of hazardous materials, additional site remediation may be required by the applicable state or local regulatory agencies, and the contractors shall be required to comply with all regulatory requirements for facility design or site remediation. In addition, the environmental professional will perform a site reconnaissance and assess the need for Phase II soil sampling at locations with the potential to have subsurface contamination identified	X	X	X	MCWD	MCWD signs off that: 1. Phase I Environmental Site Assessment has been conducted 2. Phase II Environmental Site Assessment has been conducted, if necessary. 3. If necessary, site remediation has been conducted in accordance with regulatory requirements.	1. Within one year prior to construction of facilities requiring excavation of more than 50 cubic yards of soil 2,3. Before the start of construction.

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
		in the RBF Hazardous Materials Assessment (2005). These locations may not be identified through a regulatory agency database search, and include stained soil near the aboveground petroleum pipeline at the plant site, the railroad right-of-way, and near Highway 1. As above, pertinent findings shall be reported to the applicable state or local regulatory agencies and additional remediation may be required based on the findings of these investigations.						
Impact 6.6-1	Excavation and grading for the project could expose construction workers, the public, or the environment to hazardous materials that may be present in excavated soil or groundwater.	**Mitigation Measure 4.6-1b:** Based on the findings of the environmental review required by Mitigation Measure 4.6-1a, the project sponsor shall prepare a project-specific Health and Safety Plan (HSP) in accordance with 29 CFR 1910 to protect construction workers and the public during all excavation, grading and construction services. This plan shall be submitted to the project sponsor for review. The HSP shall identify the following, but not be limited to: • A summary of all potential risks to construction workers and maximum exposure limits for all known and reasonably foreseeable site chemicals; • Specified personal protective equipment and decontamination procedures, if needed; • Safety procedures to be followed in the event suspected hazardous materials are encountered; • Emergency procedures, including route to the nearest hospital; • The identification of a site health and safety officer and responsibilities of the site health and safety officer	X	X	X	MCWD	MCWD signs off that: 1. Project specifications contain requirement for a project-specific Health and Safety Plan (HSP). 2. HSP has been prepared	1. During final design. 2. Before start of construction
Impact 6.6-1	Excavation and grading for the project could expose construction workers, the public, or the environment to hazardous materials that may be present in excavated soil or groundwater.	**Mitigation Measure 4.6-1c:** The contractor shall have a site health and safety supervisor fully trained pursuant to the HAZWOPER standard (29 CFR 1910.120) be present during excavation, grading, trenching, or cut and fill operations to monitor for evidence of potential soil contamination, including soil staining, noxious odors, debris or buried storage containers. The site health and safety supervisor must be capable of evaluating whether hazardous materials encountered constitute an incidental release[1] of a hazardous substance or an emergency spill. The site health and safety supervisor shall direct procedures to be followed in the event that a hazardous materials release with the potential to impact worker health and safety is encountered. These procedures shall be in accordance with hazardous waste operations regulations and specifically include, but are not limited to, the following: immediately	X	X	X	MCWD	MCWD signs off that: 1. Project specifications contain requirement contractor to have an appropriately trained supervisor 2. Contractor' s supervisor has appropriate training 3. In the event of an incidental release, appropriate procedures have been	1. During final design. 2. Before start of construction 3. During construction

[1] An incidental release is a release of a hazardous substance which does not pose a significant safety or health hazard to employees in the immediate vicinity or to the employee cleaning it up, nor does it have the potential to become an emergency within a short time frame. Incidental releases are limited in quantity, exposure potential, or toxicity and present minor safety and health hazards to employees in the immediate work area or those assigned to clean them up.

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
		stopping work in the vicinity of the unknown hazardous materials release, notifying MCDEH, and retaining a qualified environmental firm to perform sampling and remediation.					followed.	
Impact 6.6-1	Excavation and grading for the project could expose construction workers, the public, or the environment to hazardous materials that may be present in excavated soil or groundwater.	**Mitigation Measure 4.6-1d:** The applicant and its contractor shall coordinate with the future property owner at the time of construction and obtain a legal Right of Entry. The contractor shall comply with all provisions established in that agreement and all regulations regarding excavation, digging, and development within the former Fort Ord.	X	X	X	MCWD	MCWD signs off that: 1. A legal Right of Entry has been obtained 2. Provisions established in Right of Entry and regulations regarding excavation within the former Fort Ord are incorporated in specifications 3. Contractor complies with requirements.	1,2. During final design. 3. During construction
Impact 6.6-1	Excavation and grading for the project could expose construction workers, the public, or the environment to hazardous materials that may be present in excavated soil or groundwater.	**Mitigation Measure 4.6-1e:** The applicant or its contractor shall develop a materials disposal plan specifying how the applicant or its contractor will remove, handle, transport, and dispose of all excavated material in a safe, appropriate, and lawful manner. The plan must identify the disposal method for soil and the approved disposal site, and include written documentation that the disposal site will accept the waste. This plan shall be submitted to the project sponsor for review and approval. The applicant or its contractor shall develop a groundwater dewatering control and disposal plan specifying how the applicant or its contractor will remove, handle, and dispose of groundwater impacted by hazardous substances in a safe, appropriate and lawful manner. The plan must identify the locations at which potential groundwater impacts are likely to be encountered (based on the results of Mitigation Measure 4.6-1a), the method to analyze groundwater for hazardous materials, and the appropriate treatment and/or disposal methods. This plan shall be submitted to the project sponsor for review and approval.	X	X	X	MCWD	MCWD signs off that: 1. A Materials Disposal Plan and Groundwater Dewatering Control and Disposal Plan have been developed and approved 2. Soil and groundwater have been appropriately disposed of.	1. Before the start of construction. 2. During construction.

MONTEREY REGIONAL WATER SUPPLY PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
TRAFFIC								
Impact 6.7-1	Short-term increases in vehicle trips by construction workers and construction vehicles on area roadways.	**Mitigation Measure 4.7-1:** The following requirements will be incorporated into contract specifications for the project: • The contractor(s) will obtain any necessary road encroachment permits prior to construction of each project component and will comply with conditions of approval attached to project implementation. As part of the road encroachment permit process, the contractor(s) will prepare a Traffic Control and Safety Assurance Plan in accordance with professional engineering standards and submit the plan (for work in the public right-of-way) to the agencies with jurisdiction over the affected roads, as well as the project sponsor, for review and approval. The specific plan will be developed on the basis of detailed design plans for the approved project, but elements of the plan could include, but are not necessarily limited to, the following: – Develop circulation and detour plans to minimize impacts to local street circulation. This could include the use of haul routes that maximize truck traffic on arterials and other major roads (which conversely limits the use of local roadways to the extent possible), and the use of signing and flaggers to guide vehicles through the construction zone. – Control and monitor construction vehicle movements through the enforcement of standard construction specifications by periodic onsite inspections. – Install traffic control devices where traffic conditions warrant, as specified in applicable jurisdiction's standards (e.g., the Caltrans *Manual of Traffic Controls for Construction and Maintenance Work Zones*). – Schedule truck trips outside of peak AM and PM peak commute hours to the extent feasible, and as needed to avoid adverse impacts on traffic flow (i.e., if agencies with jurisdiction over the affected roads identify highly congested traffic flow during their review of the encroachment permit applications). The frequency of truck trips (loaded or empty) shall be no greater than one every two minutes during the peak AM and PM peak commute hours. – Post advanced warning signs of construction activities to allow motorists to select alternative routes. – Arrange a telephone number with knowledgeable personnel to	X	X	X	MCWD	MCWD signs off that: 1. Requirements are included in specifications 2. Any necessary road encroachment permits are obtained 3. Traffic Control and Safety Assurance Plan has been prepared and submitted 4. Traffic Control and Safety Assurance Plan has been implemented.	1. During final design 2,3. Before start of construction 4. During construction

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
		address public questions and complaints during project construction. – Store all equipment and materials in designated contractor staging areas on or close to the worksite, in such a manner to minimize obstruction to traffic.						
Impact 6.7-2	Reduction in the number of, or the available width of, travel lanes on roads where pipeline construction would occur, resulting in short-term traffic delays for vehicles traveling past the construction zones.	**Mitigation Measure 4.7-1**	X	X	X	MCWD	See above under Mitigation Measure 4.7-1	
Impact 6.7-2	Reduction in the number of, or the available width of, travel lanes on roads where pipeline construction would occur, resulting in short-term traffic delays for vehicles traveling past the construction zones.	**Mitigation Measure 4.7-2:** The following requirements will be incorporated into contract specifications for the project: • The following element shall be included in the Traffic Control and Safety Assurance Plan prepared in compliance with Mitigation Measure 4.7-1: – Where possible, limit the pipeline construction work zone to a width that, at a minimum, maintains alternate one-way traffic flow past the construction zone. – If alternate one-way traffic flow cannot be maintained past the construction zone, install detour signs on alternative routes around the closed road segment. – Publish notices of the location(s) and timing of road closures in local newspapers, and on available web sites, to allow motorists to select alternative routes. – Limit lane closures during peak hours to the extent possible. – Restore roads and streets to normal operation by covering trenches with steel plates outside of allowed working hours or when work is not in progress.	X	X	X	MCWD	MCWD signs off that: 1. Requirements are included in specifications 2. Traffic Control and Safety Assurance Plan includes required elements 3. Traffic Control and Safety Assurance Plan has been implemented.	1. During final design 2. Before start of construction 3. During construction
Impact 6.7-3	Demand for parking spaces to accommodate construction worker vehicles.	**Mitigation Measure 4.7-1**	X	X	X	MCWD	See above under Mitigation Measure 4.7-1	

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
Impact 6.7-3	Demand for parking spaces to accommodate construction worker vehicles.	**Mitigation Measure 4.7-3:** The following requirements will be incorporated into contract specifications for the project: • The following element shall by included in the Traffic Control and Safety Assurance Plan prepared in compliance with Mitigation Measure 4.7-1: – Identify locations that provide sufficient parking capacity to accommodate parking demand by construction workers (within the construction zone or, if needed, at a nearby location with transport [e.g. shuttle vans] provided between the parking location and the worksite).	X	X	X	MCWD	MCWD signs off that: 1. Requirements are included in specifications 2. Traffic Control and Safety Assurance Plan includes required elements 3. Traffic Control and Safety Assurance Plan has been implemented.	1. During final design 2. Before start of construction 3. During construction
Impact 6.7-4	Potential traffic safety hazards for vehicles, bicyclists, and pedestrians on public roadways.	**Mitigation Measure 4.7-1**	X	X		MCWD	See above under Mitigation Measure 4.7-1	
Impact 6.7-4	Potential traffic safety hazards for vehicles, bicyclists, and pedestrians on public roadways.	**Mitigation Measure 4.7-4:** The following requirements will be incorporated into contract specifications for the project: • The following element shall by included in the Traffic Control and Safety Assurance Plan prepared in compliance with Mitigation Measure 4.7-1: – Comply with roadside safety protocols to reduce the risk of accidents. Provide “Road Work Ahead” warning signs and speed control (including signs informing drivers of state-legislated double fines for speed infractions in a construction zone) to achieve required speed reductions for safe traffic flow through the work zone. Construction personnel shall be trained to apply appropriate safety measures as described in the plan. – To the extent feasible, perform construction that crosses on-street and off-street bikeways (and sidewalks and pathways for pedestrians) in a manner that allows for safe access for bicyclists and pedestrians. Alternatively, provide safe detours to reroute affected bicycle/pedestrian traffic.	X	X	X	MCWD	MCWD signs off that: 1. Requirements are included in specifications 2. Traffic Control and Safety Assurance Plan includes required elements 3. Traffic Control and Safety Assurance Plan has been implemented.	1. During final design 2. Before start of construction 3. During construction
Impact 6.7-5	Access disruption to adjacent land uses and streets for both general traffic and emergency vehicles.	**Mitigation Measure 4.7-1**	X	X	X	MCWD	See above under Mitigation Measure 4.7-1	

MONTEREY REGIONAL WATER SUPPLY PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
Impact 6.7-5	Access disruption to adjacent land uses and streets for both general traffic and emergency vehicles.	**Mitigation Measure 4.7-5:** The following requirements will be incorporated into contract specifications: • The following element shall be included in the Traffic Control and Safety Assurance Plan prepared in compliance with Mitigation Measure 4.7-1: – Maintain access for emergency vehicles at all times. Coordinate with facility owners or administrators of sensitive land uses such as police and fire stations, transit stations, hospitals, and schools. Provide advance notification to local police, fire, and emergency service providers of the timing, location, and duration of construction activities that could affect the movement of emergency vehicles on area roadways. – Provide flaggers in school areas at the start and end of the school day if and when pipeline installation would occur at designated school zones. – Maintain access for private driveways to the maximum extent feasible.	X	X	X	MCWD	MCWD signs off that: 1. Requirements are included in specifications 2. Traffic Control and Safety Assurance Plan includes required elements 3. Traffic Control and Safety Assurance Plan has been implemented.	1. During final design 2. Before start of construction 3. During construction
Impact 6.7-6	Disruptions to transit and railroad service on pipeline alignment routes.	**Mitigation Measure 4.7-1**	X	X	X	MCWD	See above under Mitigation Measure 4.7-1	
Impact 6.7-6	Disruptions to transit and railroad service on pipeline alignment routes.	**Mitigation Measure 4.7-6:** The following requirements will be incorporated into contract specifications for the project: • The following element shall by included in the Traffic Control and Safety Assurance Plan prepared in compliance with Mitigation Measure 4.7-1: – Coordinate with Monterey-Salinas Transit so the transit provider can temporarily relocate bus routes or bus stops in work zones as it deems necessary. – Provide advance notification to UPRR of the timing, location, and duration of construction activities that could affect the movement of trains on the tracks between Dolan Road and SR 156.	X	X	X	MCWD	MCWD signs off that: 1. Requirements are included in specifications 2. Traffic Control and Safety Assurance Plan includes required elements 3. Traffic Control and Safety Assurance Plan has been implemented.	1. During final design 2. Before start of construction 3. During construction

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
Impact 6.7-7	Increased wear-and-tear on the designated haul routes used by construction vehicles.	**Mitigation Measure 4.7-7:** Prior to construction of project components, the applicant and the affected jurisdiction(s) shall enter into an agreement that will detail the pre-construction conditions for all routes that will be used by project-related vehicles, and the post-construction requirements of the rehabilitation program. Roads damaged by project construction will be repaired to a structural condition equal to that which existed prior to construction activity.	X	X	X	MCWD	MCWD signs off that: 1. Agreement regarding road conditions is in effect 2. Roads have been repaired as per agreement	1. Prior to construction of project components 2. After construction
AIR QUALITY								
Impact 6.8-1	Regional Project construction activities would generate emissions of criteria pollutants, including fugitive dust and equipment exhaust particulate matter.	**Mitigation Measure 4.8-1a: *Construction Fugitive Dust Control Plan.*** Project sponsor(s) shall require its construction contractor(s) to implement a dust control plan that shall include a minimum of the following dust control measures: • Water all active construction areas at least twice daily. • Cover all trucks hauling soil, sand, and other loose materials and require trucks to maintain at least two feet of freeboard. • Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on unpaved access roads, parking areas and staging areas at construction sites. • Sweep daily (with water sweepers) all paved access roads, parking areas and staging areas at construction sites. • Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets. • Hydroseed or apply (non-toxic) soil stabilizers to inactive construction areas (previously graded areas inactive for ten days or more). • Enclose, cover, or water twice daily exposed stockpiles (dirt, sand, etc.) • Limit traffic speeds on unpaved roads to 15 mph. • Install sandbags or other erosion control measures to prevent silt runoff to public roadways. • Replant vegetation in disturbed areas as quickly as possible. • Post a publically visible sign that specifies the telephone number and person to contact regarding dust complaints. This person shall respond to complaints and take corrective action within 48 hours.	X	X	X	MCWD	MCWD signs off that: 1. Dust Control Plan is required in specifications 2. Contractor has implemented plan.	1. During final design 2. During construction

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
		The phone number of the Monterey Bay Unified Air Pollution Control District shall also be visible to ensure compliance with District rules. • Wheel washers shall be installed and used by truck operators at the exits of the construction sites to the ASR well facilities and the Terminal Reservoir/ASR pump station sites.						
Impact 6.8-1	Regional Project construction activities would generate emissions of criteria pollutants, including fugitive dust and equipment exhaust particulate matter.	**Mitigation Measure 4.8-1b: *Stabilize Dust on Access Roads*.** Project sponsor(s) shall require its construction contractor(s) to apply a soil stabilizer, gravel, or pave the construction access roads to the project's Desalination Plant site. These access roads shall be stabilized prior to the commencement of construction activities at these sites.	X			MCWD	MCWD signs off that: 1. Dust Stabilization is required in specifications 2. Contractor has stabilized access roads.	1. During final design 2. Before start of construction
Impact 6.8-1	Regional Project construction activities would generate emissions of criteria pollutants, including fugitive dust and equipment exhaust particulate matter.	**Mitigation Measure 4.8-1c: *Idling Restrictions*.** On road vehicle idling time shall be minimized and shall not exceed a five minute maximum. Additionally, off road engines will not idle for longer than five minutes per Section 2449(d)(3) of Title 13, Article 4.8, Chapter 9 of the California Code of Regulations. To enforce this measure project sponsor(s) shall ensure that all construction workers are aware of vehicle idling restrictions.	X	X	X	MCWD	MCWD signs off that: 1. Idling restrictions are included in specifications 2. Contractor is enforcing restrictions	1. During final design 2. During construction
Impact 6.8-4	Regional Project construction activities would generate emissions of diesel particulate matter (DPM), potentially exposing local sensitive receptors to pollutant concentrations.	**Mitigation Measure 4.8-1c**				See above under Mitigation Measures 4.8-1c		
Impact 6.8-5	Conflict with the State goal of reducing greenhouse gas emissions in California to 1990 levels by 2020, as set forth by AB 32, California Global Warming Solutions Act of 2006.	**Mitigation Measure 4.8-1c**				See above under Mitigation Measures 4.8-1c		
Impact 6.8-5	Conflict with the State goal of reducing greenhouse gas emissions in California to 1990 levels by 2020, as set forth by AB 32, California Global Warming Solutions Act of 2006.	**Mitigation Measures 4.8-5a: *Aerodynamic Efficiency for Trucks.*** Trucks and trailers that would be used after year 2013 to haul equipment and materials to construction sites associated with the project would be required to be retrofitted with the best available aerodynamic efficiency technology and/or CARB approved aerodynamic efficiency technology to reduce GHG emissions and improve fuel efficiency by reducing aerodynamic drag and rolling resistance pursuant to CARB's Climate Change Scoping Plan Discrete Early Action T-7.	X	X	X	MCWD	MCWD signs off that: 1. Aerodynamic efficiency requirements are included in specifications 2. Contractor is using best available technology, subject to commercial availability in the project area.	1. During final design 2. During construction
Impact 6.8-5	Impact 6.8-5: Conflict with the State goal of reducing greenhouse gas emissions in California to 1990 levels by 2020, as set forth by AB 32, California Global Warming Solutions Act	**Mitigation Measures 4.8-5b: *Low SF_6 Leak Rate Circuit Breaker and Monitoring.*** If an SF_6-containing circuit breaker is required for the project substation, the project sponsor shall ensure that the circuit breaker would have a guaranteed SF_6 leak rate of 0.5 percent per volume or less. The project sponsor shall provide documentation prior to	X			MCWD	MCWD signs off that: 1. Circuit breaker leak rate requirements are included in specifications.	1. During final design 2. During construction 3. During operation

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
	of 2006.	installation of the circuit breaker. In addition, the project sponsor shall also monitor SF_6-containing circuit breakers consistent with Scoping Plan Measure H-6 for the detection and repair of leaks.					2. Circuit breakers complying with specifications are installed 3. Circuit breakers are monitored as needed	
Impact 6.8-5	Impact 6.8-5: Conflict with the State goal of reducing greenhouse gas emissions in California to 1990 levels by 2020, as set forth by AB 32, California Global Warming Solutions Act of 2006.	**Mitigation Measure 4.8-5c: *Energy Minimization and GHG Reduction Plan.*** The project sponsor shall develop and implement an Energy Minimization and Greenhouse Gas Reduction Plan to reduce the project's carbon footprint to the extent feasible. The plan may include a variety of measures to reduce the combined carbon footprint of the intake, treatment, and distribution components of the project, including the installation of premium energy efficient equipment (i.e., state of the art energy recovery systems), participation in PG&E's Climate Smart Program, LEED compliant facilities, roof-top or locally produced solar power, use of renewable energy sources.	X	X	X	MCWD	MCWD signs off that: 1. Energy Minimization and Greenhouse Gas Reduction Plan has been prepared. 2. Energy efficient elements are installed in project.	1. During final design 2. During construction
NOISE AND VIBRATION								
Impact 6.9-1	Construction activity would violate standards established in the local general plans or noise ordinances, and/or would adversely affect nearby sensitive receptors.	**Mitigation Measure 4.9-1b:** The construction contractor shall limit all non-ASR well development construction related activities to between the hours of 7:00 a.m. and 7:00 p.m. on weekdays and between 9:00 a.m. and 7:00 p.m. Saturdays, or as agreed upon by the local jurisdiction.	X	X	X	MCWD	MCWD signs off that: 1. Restrictions on construction hours are included in specifications 2. Contractor is adhering to restrictions	1. During final design 2. During construction
Impact 6.9-1	Construction activity would violate standards established in the local general plans or noise ordinances, and/or would adversely affect nearby sensitive receptors.	**Mitigation Measure 4.9-1c:** The contractor shall assure that construction equipment with internal combustion engines have sound control devices at least as effective as those provided by the original equipment manufacturer. No equipment shall be permitted to have an un-muffled exhaust.	X	X	X	MCWD	MCWD signs off that: 1. Requirements for noise controls are included in specifications 2. Contractor is adhering to requirements	1. During final design 2. During construction
Impact 6.9-1	Construction activity would violate standards established in the local general plans or noise ordinances, and/or would adversely affect nearby sensitive receptors.	**Mitigation Measure 4.9-1d:** Residences and other sensitive receptors within 500 feet of a construction area shall be notified of the construction schedule in writing, at least two weeks prior to the commencement of construction activities. The project sponsor or the contractor shall designate a noise disturbance coordinator who would be responsible for responding to complaints regarding construction noise. The coordinator shall determine the cause of the complaint and ensure that reasonable measures are implemented to correct the problem. A contact number for the noise disturbance coordinator shall be conspicuously placed on	X	X	X	MCWD	MCWD signs off that: 1. Requirements for notification are included in specifications 2. Notification has been provided 3. Noise disturbance coordinator is assigned and phone number is posted	1. During final design 2. At least two weeks prior to start of construction activities. 3. During construction

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
		construction site fences and included in the construction schedule notification sent to nearby residences.						
Impact 6.9-2	Operation of the proposed desalination plant and other conveyance facilities would potentially increase existing noise levels, which could exceed noise level standards and/or result in nuisance impacts.	**Mitigation Measure 4.9-2:** All stationary noise sources (e.g., pump stations, permanent and emergency power generators, variable frequency drive motors, well heads with motors, etc.) shall be located within enclosed structures with adequate setback and screening, as necessary, to achieve acceptable regulatory noise standards for industrial uses as well as to achieve acceptable levels at the property lines of nearby residences, as determine by the applicable local jurisdiction. Noise enclosures shall be designed to reduce equipment noise levels by at least 20 dBA. Once the stationary noise sources have been installed, noise levels shall be monitored to ensure compliance with local noise standards. If project stationary noise sources exceed the applicable noise standards, an acoustical engineer shall by retained by the project sponsor to install additional noise attenuation measures in order to meet the applicable noise standards.	X			MCWD	MCWD signs off that: 1. Requirements for enclosures are included in specifications 2. Noise levels are monitored to ensure compliance 3. Additional noise attenuation features are implemented if needed.	1. During final design 2. At completion of construction. If noise levels are acceptable no further action is required. 3. Before start of operations
Impact 6.9-3	Short-term construction within the Project area would result in temporary vibration impacts on nearby sensitive receptors and structures.	**Mitigation Measures 4.9-1b and 4.9-1d**	See above under Mitigation Measures 4.8-1a through 4.8-1c					
LAND USE, AGRICULTURE AND RECREATION								
Impact 6.10-1	Components of the Regional Project may permanently divide or temporarily disrupt an established community.	**Mitigation Measure 4.10-1a:** Implement the Traffic Control and Safety Assurance Plan element recommended in Mitigation Measure 4.7-1 (Section 4.7, Traffic) to develop detours during construction activities to allow traffic, pedestrian, and service flow within and among existing communities.	X	X	X	See above under Mitigation Measure 4.7-1		
Impact 6.10-1	Components of the Regional Project may permanently divide or temporarily disrupt an established community.	**Mitigation Measure 4.10-1b:** Implement the Traffic Control and Safety Assurance Plan element recommended in Mitigation Measure 4.7-4 (Section 4.7, Traffic) to carry out construction activities in a manner that allows access along bike routes and pedestrian pathways to ensure safe access for pedestrians and bicyclists. During construction of the Regional Project, the project sponsor shall implement detours adjacent to the existing bike paths, sidewalks, and hiking trails that will be affected by construction in order to maintain access to and along paths.	X	X	X	See above under Mitigation Measure 4.7-4		
Impact 6.10-1	Components of the Regional Project may permanently divide or temporarily disrupt an established community.	**Mitigation Measure 4.10-1c:** Disturbed areas shall be restored after construction to minimize permanent effects. The project sponsor shall repave roads and sidewalks with asphalt or concrete for directly affected road sections only, replace uncontaminated soil that was removed, and replant areas where vegetation was removed with the same or comparable species.	X	X	X	MCWD	MCWD signs off that: 1. Requirements for restoration are included in specifications 2. Contractor has completed restoration.	1. During final design 2. At completion of construction

MONTEREY REGIONAL WATER SUPPLY PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
Impact 6.10-3	Implementation of the proposed project could result in the permanent removal of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance from agricultural operation, or involve other changes that could result in conversion of farmland to nonagricultural use as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use.	**Mitigation Measure 4.10-3:** To the extent feasible, the project sponsor shall develop a construction schedule that avoids conflict with growing seasons and rotation patterns of crops that could be impacts by construction activities for portions of the proposed alignment that cross or are adjacent to agricultural land. The project sponsor or its contractor shall implement Best Management Practices (BMPs), that will be reviewed by the project sponsor, during construction to minimize dust (refer to Section 4.8, Air Quality).			X	MCWD	MCWD signs off that: 1. Requirements for scheduling and BMPs are included in specifications 2. Contractor has adhered to schedule 3. Contractor has implemented BMPs.	1. During final design 2,3. During construction
PUBLIC SERVICES AND UTILITIES								
Impact 6.11-1	Potential damage to or interference with existing public utilities.	**Mitigation Measure 4.11-1a:** Prior to excavation, the project sponsor or its contractor will locate overhead and underground utility lines, such as natural gas, electricity, sewage, telephone, fuel, and water lines, that may reasonably be expected to be encountered during excavation work.	X	X	X	MCWD	MCWD signs off that: 1. Requirements for locating utilities are included in specifications 2. Contractor has located utilities	1. During final design 2. Before the start of any excavation
Impact 6.11-1	Potential damage to or interference with existing public utilities.	**Mitigation Measure 4.11-1b:** The project sponsor or its contractors will find the exact location of underground utilities by safe and acceptable means, including the use of hand and modern techniques as well as customary types of equipment. Pursuant to state law the project sponsor or its contractor shall notify Utilities Service Alert (USA). Information regarding the size, color, and location of existing utilities must be confirmed before construction activities begin. Detailed specifications shall be prepared as part of the design plans to include procedures for the excavation, support, and fill of areas around utility cables and pipes. All affected utility services shall be notified of construction plans and schedule. Arrangements shall be made with these entities regarding protection, relocation, or temporary disconnection of services.	X	X	X	MCWD	MCWD signs off that: 1. Locations of utilities are included in project plans 2. Affected utilities have been notified, and coordination has occurred as needed.	1. During final design 2. Before the start of any excavation
Impact 6.11-1	Potential damage to or interference with existing public utilities.	**Mitigation Measure 4.11-1c:** The project sponsor shall comply with all conditions of its utility excavation or encroachment permits and shall include such conditions in construction contract specifications.	X	X	X	MCWD	MCWD signs off that: 1. Requirements for utility excavation and encroachment permits are included in specifications 2. Contractor has complied with requirements	1. During final design 2. During construction
Impact 6.11-1	Potential damage to or interference with existing public utilities.	**Mitigation Measure 4.11-1d:** The project sponsor or its contractors will confirm the specific location of all high priority utilities (i.e. pipelines carrying petroleum products, oxygen, chlorine, toxic or flammable gases;	X	X	X	MCWD	MCWD signs off that: 1. Locations of high-priority utilities are	1,2,3. During final design 4. During construction

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
		natural gas in pipelines greater than 6 inches in diameter, or with normal operating measures, greater than 60 pounds per square inch gauge; and underground electric supply lines, conductors, or cables that have a potential to ground more than 300 volts that do not have effectively grounded sheaths) and such locations will be highlighted on all construction drawings. In the contract specifications, the project sponsor will require that the contractor provide weekly updates on planned excavation for the upcoming week and identify when construction will occur near a high priority utility. On days when this work will occur, the project sponsor's construction managers will attend tailgate meetings with contractor staff to review all measures—those identified in the Mitigation Monitoring and Reporting Program and in the construction specifications—regarding such excavations. The contractor's designated health and safety officer will specify a safe distance to work near high-pressure gas lines, and excavation closer to the pipeline will not be authorized until the designated health and safety officer confirms and documents in the construction records that: (1) the line was appropriately located in the field by the utility owner using as-built drawings and a pipeline-locating device, and (2) the location was verified by hand by the construction contractor.					included in construction drawings 2. Requirements for weekly updates and tailgate safety meetings are included in specifications 3. Safety requirements are included in specifications 4. Appropriate safety procedures are being followed. .	
Impact 6.11-1	Potential damage to or interference with existing public utilities.	**Mitigation Measure 4.11-1e:** While any excavation is open, the project sponsor or its contractors will protect, support, or remove underground utilities as necessary to safeguard employees.	X	X	X	MCWD	MCWD signs off that: 1. Requirements for excavations are included in specifications 2. Contractor has complied with requirements	1. During final design 2. During construction
Impact 6.11-1	Potential damage to or interference with existing public utilities.	**Mitigation Measure 4.11-1f:** The project sponsor or its contractors will notify local fire departments any time damage to a gas utility results in a leak or suspected leak, or whenever damage to any utility results in a threat to public safety.	X	X	X	MCWD	MCWD signs off that: 1. Requirements for leak notification are included in specifications 2. Contractor has complied with requirements	1. During final design 2. During construction, if any leak occurs or is suspected
Impact 6.11-1	Potential damage to or interference with existing public utilities.	**Mitigation Measure 4.11-1g:** The project sponsor or its contractors shall contact utility owner if any damage occurs as a result of the project and promptly reconnect disconnected cables and lines with approval of owner.	X	X	X	MCWD	MCWD signs off that: 1. Requirements for utility notification are included in specifications 2. Contractor has complied with requirements	1. During final design 2. During construction, if any damage occurs

MONTEREY REGIONAL WATER SUPPLY PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
			Desal plant	TM South: thru Ft Ord	intake	Implementation Monitoring/ Reporting Responsibility	Monitoring and Reporting Actions	Implementation Schedule
Impact 6.11-1	Potential damage to or interference with existing public utilities.	**Mitigation Measure 4.11-1h:** The project sponsor shall observe Department of Health Services (DHS) standards, which require: (1) a 10-foot horizontal separation between parallel sewage and water mains (gravity or force mains); (2) a 1-foot vertical separation between perpendicular water and sewage line crossings; and (3) encasement of sewage mains in protective sleeves where a new water line crosses under or over an existing wastewater main.	X	X	X	MCWD	MCWD signs off that: 1. Requirements for separation are included in plans and specifications 2. Contractor has complied with requirements	1. During final design 2. During construction
Impact 6.11-1	Potential damage to or interference with existing public utilities.	**Mitigation Measure 4.11-1i:** The project sponsor or its contractors shall coordinate final construction plans and specifications with affected utilities, such as PG&E. If any interruption of service is required, the project sponsor or its contractors shall notify residents and businesses in the project corridor of any planned utility service disruption two to four days in advance, in conformance with county and State standards.	X	X	X	MCWD	MCWD signs off that: 1. Coordination with utilities has occurred 2. Requirements for utility interruption are included in plans and specifications 3. Contractor has complied with notification requirements	1,2. During final design 3. During construction
Impact 6.11-2	Potential short-term increase in demand for police, fire, or emergency services.	**Mitigation Measure 4.7-1 and Measures 4.11-1a through 4.11-1i**	X	X	X	MCWD	See Mitigation Measures 4.7-1 and Measure 4.11-1a through 4.11-1i above for applicable monitoring and reporting actions.	
Impact 6.11-3	Potential adverse effects on solid waste landfill capacity and/or failure to achieve state-mandated solid waste diversion rates.	**Mitigation Measure 4.11-3a:** The project sponsor shall encourage project facility design and construction methods that produce less waste, or that produce waste that could more readily be recycled or reused.	X	X	X	MCWD	MCWD signs off that: 1. Plans and specification are designed to minimize waste 2. Contractor is recycling and reusing waste to the extent feasible	1. During final design 2. During construction
Impact 6.11-3	Potential adverse effects on solid waste landfill capacity and/or failure to achieve state-mandated solid waste diversion rates.	**Mitigation Measure 4.11-3b:** The project sponsor shall include in its construction specifications a requirement for the contractor to describe plans for recovering, reusing, and recycling wastes produced through construction, demolition, and excavation activities.	X	X	X	MCWD	MCWD signs off that: 1. Specifications require preparation of waste minimization plan 2. Contractor is implementing plan	1. During final design 2. During construction

MONTEREY REGIONAL WATER SUPPLY PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM

Impact No.	Impact	Mitigation Measure	Applicable Site(s)			Monitoring and Reporting Program		
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Impact 6.11-3	Potential adverse effects on solid waste landfill capacity and/or failure to achieve state-mandated solid waste diversion rates.	**Mitigation Measure 4.11-3c:** Prior to project operation the project sponsor shall demonstrate that the residuals and solid waste generated by the greensand filtration process are acceptable and will be accepted for disposal at the MRWMD landfill. If the waste from the greensand process is determined by MRWMD not to be acceptable, the project sponsor shall identify the permitted waste facility to which the waste will be taken for disposal. This waste facility shall be approved for accepting the type of waste generated and have adequate capacity to accept the waste over the life of the project.	X	X	X	MCWD	MCWD signs off that: 1. Residuals are acceptable for disposal at landfill. 2. If necessary, another appropriate waste facility has been identified and will accept waste.	1. During final design; if acceptable no further action is needed 2. During final design
Impact 6.11-4	Potential adverse effects on wastewater treatment facilities.	**Mitigation Measure 4.11-4a**: The CIP waste shall be neutralized, tested, and logged prior to transport to the MRWPCA or discharge to the MRWPCA sewer system in accordance with all MRWPCA regulations and standards	X			MCWD	MCWD signs off that: 1. CIP waste is acceptable for discharge to MRWPCA	1. Before discharge
AESTHETICS RESOURCES								
Impact 6.12-3	Exterior lighting associated with proposed facilities would create new sources of light and glare in the surrounding areas.	**Mitigation Measure 4.12-3a:** To ensure that the project's exterior lighting does not spill over onto the adjacent uses, all exterior light fixtures, including street lighting, shall be shielded or directed away from adjoining uses.	X			MCWD	MCWD signs off that: 1. Specifications include appropriate lighting design 2. Lighting is installed as specified	1. During final design 2. During construction
Impact 6.12-3	Exterior lighting associated with proposed facilities would create new sources of light and glare in the surrounding areas.	**Mitigation Measure 4.12-3b:** Outdoor light intensity shall be limited to that necessary for adequate security and safety. All outside lighting shall be directed to prevent spillage onto adjacent properties and shall be shown on the site plan and elevations.	X			MCWD	MCWD signs off that: 1. Specifications include appropriate lighting design 2. Lighting is installed as specified	1. During final design 2. During construction
CULTURAL RESOURCES								
Impact 6.13-1	Project construction has the potential to affect known archaeological resources.	**Mitigation Measure 4.13-1a: *Pre-Construction Survey*.** The project sponsor shall perform pre-construction surveys for any project components not yet surveyed due to lack of access or modifications in project component siting (e.g., new pipelines, staging areas, access roads, facilities). If resources are discovered during survey, Mitigation Measures 4.131-b-f shall be followed.	X	X	X	MCWD	MCWD signs off that: 1. Preconstruction surveys have been conducted. If no resources are found no further mitigation is needed.	1. During final design
Impact 6.13-1	Project construction has the potential to affect known archaeological resources.	**Mitigation Measure 4.13-1b: *Avoidance*.** The project sponsor will seek to avoid cultural resources as the preferred mitigation measure. Avoidance of cultural resources would result in less-than-significant	X	X	X	MCWD	MCWD signs off that: 1. If cultural resources are identified in	1. During final design 2. Before construction

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		levels of impacts to identified cultural resources. All design-level engineering and construction drawings will be prepared in consultation with a cultural resource specialist. Facilities, staging areas, and any activity involving ground disturbance shall be located to avoid resources. To ensure that no inadvertent damage occurs to avoided cultural resources, the cultural resource boundaries shall be marked as exclusion zones both on the ground and on construction maps. This would include resources within 30 meters of the proposed project component.					the project area, plans are prepared in consultation with a cultural resources specialist. 2. Cultural resources boundaries are marked on plans and on the ground	
Impact 6.13-1	Project construction has the potential to affect known archaeological resources.	**Mitigation Measure 4.13-1c: *Evaluation for CRHR*.** If avoidance is determined to be infeasible, The project sponsor shall retain a qualified archaeologist to evaluate the potentially significant resources for CEQA "importance" or eligibility for the CRHR. The purpose of further action will be to define a course of action to satisfy CEQA requirements for an Assessment of Effects. In the case of prehistoric archaeological sites, evaluation may be completed by examining existing records and reports, detailed recording, and/or excavation to determine data potential of the sites. Historic resource mitigation measures may include further study to evaluate the sites, detailed recording, and/or excavation. Resources found not to be "important" would require no further management. If cultural resources are considered "important" per CEQA or eligible for the CRHR, then a data recovery program shall be implemented to reduce impacts to less-than-significant levels as required by CEQA Guidelines Data recovery could include excavation and detailed analysis and/or further research, depending on the nature and type of the site. Excavated materials would be curated at an appropriate facility, such as Sonoma State University or San Francisco State.	X	X	X	MCWD	MCWD signs off that: 1. If cultural resources are cannot be avoided, they have been evaluated for CRHR eligibility. 2. Data recovery program has been developed for any eligible resources	1. During final design 2. Before construction
Impact 6.13-1	Project construction has the potential to affect known archaeological resources.	**Mitigation Measure 4.13-1d: *Cultural Resources Treatment Plan (CRTP).*** The project sponsor shall develop a Cultural Resources Treatment Plan (CRTP) for all known and newly discovered cultural resources within areas of direct impact of project activities, including but not limited to those detailed below. This plan will be sent to the project sponsor for review and approval. • Procedures for protection and avoidance of ESAs, evaluation and treatment of the unexpected discovery of cultural resources including Native American burials; • Provisions and procedures for Native American consultation; • Detailed reporting requirements by the project Archaeologist; • Curation of any cultural materials collected during the project; and • Requirements to specify that archaeologists and other discipline	X	X	X	MCWD	MCWD signs off that: 1. Cultural Resources Treatment Plan has been prepared and elements of the plan have been included in specification as needed. 2. Cultural Resources Treatment Plan, including required training and monitoring, has been implemented	1. Prior to construction 2. During construction

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		specialists meet the Professional Qualifications Standards mandated by the California Office of Historic Preservation (OHP). *Avoidance.* Implementation of the CRTP shall ensure that known and recorded cultural resources eligible for listing on the CRHR or NRHP will be avoided during construction and operation and maintenance if feasible. If cultural resources are considered "important" per CEQA or eligible for the CRHR or NRHP and cannot be avoided, then a data recovery program shall be implemented to reduce impacts to less-than-significant levels as required by CEQA Guidelines Data recovery could include excavation and detailed analysis and/or further research, depending on the nature and type of the site. Specific protective measures shall be defined in the CRTP to reduce the potential adverse impacts on any presently undetected cultural resources to less-than-significant levels. The CRTP shall define construction procedures for areas near known/recorded cultural sites eligible for the CRHR or NRHP. Wherever a tower, access road, equipment, etc., must be placed or accessed within 100 feet of a recorded, reported, or known archaeological site eligible or potentially eligible for the CRHR, the site will be flagged on the ground as an ESA (without disclosure of the exact nature of the environmental sensitivity [i.e., the ESA is *not* identified as an archaeological site]). Construction equipment shall then be directed away from the ESA, and construction personnel shall be directed not to enter the ESA. Archaeological monitoring of project construction shall be focused in the immediate vicinity of the designated ESAs during initial mass grading operations or deep excavations such as foundation footings. *Construction Personnel Training.* Construction supervisory personnel shall be notified of the existence of these resources and required to keep personnel and equipment away from these areas. The project sponsor - assigned qualified archeologist shall be notified prior to initiation of construction activities. Periodic monitoring of cultural resources to be avoided shall be completed by a qualified archeologist to ensure that no inadvertent damage to the resources occurs as a result of construction or construction-related activities. The timing and frequency of this monitoring shall be at the discretion of the archaeologist. During construction and operations, personnel and equipment shall be restricted to the project work site. *Construction Monitoring*. Archaeological monitoring shall be conducted by a qualified archaeologist familiar with the types of historic and prehistoric resources that could be encountered in the Monterey Bay area. Monitoring shall occur in all areas of ground disturbing activity that occur within 30 meters of a cultural resource exclusion zone during initial						

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		mass grading operations or deep excavations such as foundation footings. A Native American monitor may be required at all culturally sensitive locations. Decisions regarding the necessity of a Native American monitor shall be based on consultation with Native American groups and individuals prior to ground disturbing activities in culturally sensitive areas.						
Impact 6.13-2	Unanticipated archaeological discoveries may be damaged or destroyed during project construction.	**Mitigation Measure 4.13-2: *Training and Reporting*.** Prior to the initiation of construction or ground disturbing activities, all construction personnel shall be alerted to the possibility of buried cultural remains, including prehistoric and/or historic resources. During construction and operations, personnel and equipment shall be restricted to the project work site. Personnel shall be instructed that upon discovery of buried cultural materials, work in the immediate area of the find shall be immediately halted and The project sponsor shall be notified. Once the find has been identified by a qualified archaeologist, then the project sponsor shall make the necessary plans for treatment of the find(s) and for the evaluation and mitigation of impacts if the find is found to be important per CEQA (Appendix K). Application of Mitigation Measure 4.13-1b would be appropriate if the find can be avoided. In the case that that the find can't be avoided, Mitigation Measures 4.13-2c-d shall be implemented.	X	X	X	MCWD	MCWD signs off that: 1. Requirements for training and reporting are included in specifications 2. Training has been conducted 3. Any finds are reported	1. During final design 2. Before construction 3. During construction
Impact 6.13-3	Potential to uncover human remains.	**Mitigation Measure 4.13-3: *Human Remains*.** If buried human remains are encountered during construction, work shall be *immediately* halted, and the project sponsor and the Monterey County coroner shall be *immediately* notified. If the remains are determined to be Native American, then the Native American Heritage Commission (NAHC) will be notified within 24 hours as required by Public Resources Code 5097. The NAHC shall notify designated Most Likely Descendants. The MLD is responsible for providing recommendations for the treatment of the remains within 48 hours of being granted access to the find.	X	X	X	MCWD	MCWD signs off that: 1. Procedures for discovery of human remains are included in specifications. 2. Discoveries of human remains are reported and treated appropriately.	1. During final design 2. During construction
ENERGY								
Impact 6.14-1	Construction of the Regional Project could result in the substantial consumption of energy such that existing supplies would be constrained and could result in the wasteful use of energy resources that are not renewable.	For Impact 6.14-1, implement **Mitigation Measure 4.8-1c**	X	X	X	MCWD	See Mitigation Measure 4.8-1c above for applicable monitoring and reporting actions.	
Impact 6.14-2	Operation of the Regional Project would increase long-term consumption of electricity at the project facilities, which could result in the wasteful use of energy resources that are not renewable.	**Mitigation Measure 6.14-1: An *Energy Conservation Plan*** shall be prepared to evaluate the energy demands for both electrical and natural gas of the selected project power supply against the energy demands of direct use of electricity from the PG&E grid. If the *Energy Conservation Plan* cannot demonstrate that the proposed power supply other than PG&E grid alone represents the same or less demands on the energy	X	X	X	MCWD	MCWD signs off that: 1. Energy Conservation Plan has been prepared and implemented.	1. Prior to the start of construction

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		supply system, then the applicant shall power the Phase I project from the PG&E grid. Cost cannot be a factor for determining infeasibility.						