

**MITIGATION MONITORING AND REPORTING PROGRAM  
FOR THE  
MISSION TRAILS FRS II, PIPELINE TUNNEL, AND  
VENT DEMOLITION PROJECT  
(SCH #2005041025)**

***Prepared for:***

San Diego County Water Authority  
4677 Overland Avenue  
San Diego, California 92123

***Prepared by:***

AECOM  
401 West A Street, Suite 1200  
San Diego, California 92101

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The California Environmental Quality Act (CEQA) requires that public agencies adopting an Environmental Impact Report (EIR) take affirmative steps to determine that approved mitigation measures and project design features are implemented subsequent to project approval. The lead or responsible agency must adopt a monitoring and reporting program for the mitigation measures incorporated into a project or included as conditions of approval. The program must be designed to ensure compliance with the EIR during project implementation (Public Resources Code, Section 20181.6; CEQA Guidelines, Section 15074(d)).

This Mitigation Monitoring and Reporting Program (MMRP) will be used by the San Diego County Water Authority (Water Authority) to ensure compliance with adopted mitigation measures and project design features associated with the implementation of the proposed addendum to the Mission Trails FRS II, Pipeline Tunnel, and Vent Demolition Project (project). The Water Authority, as Lead Agency pursuant to CEQA, will ensure that all design features and mitigation measures identified for the project are carried out in accordance with the adopted MMRP.<sup>1</sup>

This MMRP consists of a checklist (Table 1) that identifies the project standard specifications, design features, mitigation measures, and requirements of the project's permits, organized by environmental impact category discussed in the EIR and Addendum.<sup>2</sup> Numbering of mitigation measures mirrors the numbering of measures appearing in the EIR, whereas permit numbering and those pertaining to the Natural Community Conservation Plan/Habitat Conservation Plan are listed in sequence. Numbering of standard specifications and project design features applicable to the project, as listed in Table 1, is sequential pursuant to their appearance in EIR Section 2.6, as those measures were not assigned numbers in the referenced EIR section. However, when the essence of a standard specification or project design feature listed in the EIR is already captured by another measure listed in Table 1, that standard specification/design feature is not separately listed. Instead an EIR section reference for that measure is added to the entry in the far left "Design Feature or Mitigation No." column for the applicable measure that remains.

The table identifies the mitigation monitoring and reporting requirements, including the timing of verification (prior to, during, or after construction) and the party responsible for implementing the measure. Space is provided for sign-off following completion/implementation of the design feature or mitigation measure. The responsible parties listed in Table 1 include the Water Authority, the Contractor who will be hired by the Water Authority to construct the project, and the Environmental Surveyor who will be assigned by the Water Authority to monitor compliance before and during project construction. These references in the table indicate the party responsible for implementing the respective measures, but the Water Authority will ultimately be responsible for verifying compliance with each measure listed in the table.

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<sup>1</sup> Since adoption of the Final EIR in August 2006, subsequent project design identified the need for project changes and an additional feature that were not analyzed in the Final EIR. The Water Authority prepared an Addendum to the EIR to discuss the project changes and consider the environmental impacts of the revised project. As discussed in the Addendum, additional design features pertaining to biological resources were included to reflect existing condition changes since the Final EIR and have been incorporated into this MMRP. In addition, the impact analysis of the original EIR and construction of the initial components pre-dated the Water Authority's finalization of their Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP). During preparation of the Addendum, one threatened species was observed on site and one endangered species suitable habitat was observed on-site. These species are Covered Species under the NCCP/HCP, so instead of the Water Authority requesting U.S. Army Corps of Engineers (Army Corps) reinitiation of the 2007 BO with the U.S. Fish and Wildlife Service, the Water Authority elected to cover the project and its impacts on sensitive species under their NCCP/HCP. If applicable, the measures for other issue areas have been incorporated into this MMRP as they appear in the Final EIR.

<sup>2</sup> Note, the Water Authority no longer uses the specific language noted in the standard specification measures included in EIR Section 2.6. The intent of that language will be incorporated into the project's specifications based on current practices.

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**Table 1. Mitigation Monitoring and Reporting Program  
Mission Trails FRS II, Pipeline Tunnel, and Vent Demolition Project**

Design Feature or Mitigation No.	Design Feature or Mitigation Measure	Timing of Verification			Responsible Party	Completed		Comments	Resp. Team Member	Spec Section or Dwg No.	Verified in Contract by	Comments
		Pre Const	During Const	Post Const		Initials	Date					
<b>AESTHETICS / VISUAL QUALITY</b>												
Standard Specification AV-1	The establishment maintenance period will begin on the first day following completion and acceptance of the revegetation work. Continue the establishment maintenance activities for a period of two years following the date of the filing of the Notice of Completion (i.e., the contract warranty period), and as specified herein.			X	Water Authority							
Design Feature AV-1	All disturbed areas will be graded following construction to be compatible with the surrounding topography. Excess soil will be disposed of and the sites will be cleared of all construction debris. All areas disturbed by construction, not proposed for permanent roads or facilities, will then be revegetated with a native seed mix.			X	Water Authority Contractor					02200		
Design Feature AV-2	Permanent lighting will be limited to use by Water Authority employees making repairs or conducting maintenance. Typically, no lights will be visible at night from the proposed facilities.	X			Water Authority							
<b>AIR QUALITY</b>												
Mitigation Measure AQ 1-1	Heavy-duty diesel equipment engines shall be properly tuned and maintained in compliance with State of California emissions regulations to ensure minimum emissions under normal operation. The Water Authority shall require its construction contractors to implement this measure to the extent practical.		X		Contractor					01560		
Mitigation Measure AQ 2-1	Vehicles hauling dirt or fill shall be covered with a tarp or other means.		X		Contractor					01560		
Standard Specification AQ-1; Design Feature from EIR Section 2.6.7	Perform continuous dust abatement measures in accordance with the San Diego Air Pollution Control District's regulations to prevent construction from producing dust in amounts harmful to persons or animals or causing a nuisance to persons or animals living nearby or occupying buildings in the vicinity of the work. Use water or dust prevention to control dust.		X		Contractor					01560		
Standard Specification AQ-2	Keep all public and private roads used for ingress and egress in a clean and neat condition. Take measures, as necessary, to prevent the tracking or accumulation of materials on roads. Sweep or wash all loose materials and mud from equipment before entering the road. Provide street sweeping services when requested by the Engineer.		X		Contractor					01560		

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Standard Specification AQ-3	Comply with all applicable federal, state, county, and city laws and regulations concerning the prevention and control of air pollution. Perform construction activities and operate equipment in a manner which will minimize atmospheric emissions or discharges of air contaminants. Do not operate equipment or vehicles that show excessive emissions of exhaust gases on the site.		X		Contractor							
Standard Specification AQ-4	Prevent dust from damaging dwellings, or causing a nuisance to persons. Dust control measures shall be in effect for the duration of the project.		X		Contractor					01560		
Standard Specification AQ-5	Use blasting mats as necessary to prevent flying rock during tunnel excavation near the portal(s).		X		Contractor			Blasting not anticipated for this phase of the project.				
Design Feature AQ-1	Make appropriate application of water during grading between dozer/scrapper passes.		X		Contractor					01560		
Design Feature AQ-2	Use chemical stabilization or comparable best management practice on internal roadways after completion of grading.		X		Contractor							
Design Feature AQ-3	Use sweepers or water trucks to remove "track-out" at any point of public street access.		X		Contractor					01560		
Design Feature AQ-4	Terminate grading if winds exceed 25 mph.		X		Contractor					01560		
Design Feature AQ-5	Stabilize dirt storage piles using tarps, fencing or other erosion control.		X		Contractor					01560		
<b>BIOLOGICAL RESOURCES</b>												
Mitigation Measure BIO 1-1, 2-1, 3-1	Temporary impacts to Diegan coastal sage scrub and coastal sage scrub-chaparral scrub shall be mitigated through revegetation with a coastal sage scrub seed mix. Permanent impacts to Diegan coastal sage scrub and coastal sage scrub- chaparral scrub shall be mitigated off site using the Water Authority's mitigation credits		X		Water Authority Environmental Surveyor							
Mitigation Measure BIO 7-1	Mitigation for temporary impacts to mule-fat scrub associated with appurtenance removal shall be mitigated through on-site planting of mule fat scrub in the disturbed areas.			X	Contractor Water Authority Environmental Surveyor							
Mitigation Measure BIO 8-1	Mitigation for temporary impacts to waters of the U.S./State shall be mitigated by restoring on-site habitat impacts pursuant to the NCCP/HCP and PMPP. Mitigation for permanent impacts to waters of the State shall be mitigated by acquiring credits from an off-site bank pursuant to the requirements in the NCCP/HCP.		X		Environmental Surveyor							
Mitigation Measure BIO 9-1	A qualified biologist shall conduct a pre-construction survey for the Quino checkerspot butterfly (QCB) during the flight season prior to the commencement of project	X	X	X	Water Authority	AJH	6/25/19	Surveys conducted during 2019				

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	construction. Should QCB be present, the Water Authority shall provide mitigation in the form of habitat preservation, enhancement, or creation to the mutual satisfaction of the U.S. Fish and Wildlife Service and the Water Authority.							flight season; negative results				
Mitigation Measure BIO 10-1; Design Feature from EIR Section 2.6.7	All on-site grading and construction activities adjacent to Diegan coastal sage scrub shall occur outside the gnatcatcher breeding season (February 15 through August 15). If grading or construction is planned to commence during the breeding season, a pre-construction survey shall be conducted to determine the presence or absence of gnatcatchers within areas affected by noise. If no nesting birds occur within this area, development would be allowed to proceed. However, if nesting birds are observed within this area, development shall be postponed until all nesting activity has ceased or until after August 15. Work that has commenced prior to the breeding season shall be allowed to continue without interruption. Traffic shall continue to traverse occupied habitat enroute to construction sites in unoccupied areas.	X	X		Water Authority					01560		
Design Feature BIO-1	Appropriate post-construction fencing, and signage will be installed to prohibit access and avoid potential impacts to sensitive resources adjacent to the site.		X		Water Authority			Fencing/signage was installed after VP creation				
NCCP/ HCP General Condition 1	Conduct pre-activity surveys within suitable habitat to ensure that Covered Species are adequately addressed by impact avoidance, minimization, and mitigation. Surveys must be conducted by an Environmental Surveyor during the appropriate field conditions for detection prior to any proposed impacts in the Plan Area.	X			Environmental Surveyor					01560		
NCCP/ HCP General Condition 2	Avoid and minimize impacts to occupied Covered Species habitat or potential migration and/or dispersal corridors for all new facilities through project design considerations.	X			Water Authority					01560		
NCCP/ HCP General Condition 3	Establish a habitat buffer when appropriate and feasible around covered plant species populations to support the natural suite of pollinators unless a biologically appropriate mitigation approach is agreed to with the Wildlife Agencies at the time of project-specific environmental review.	X			Environmental Surveyor					01560		
NCCP/ HCP General Condition 4; Design Feature from EIR Section 2.6.7	Fence and/or flag Covered Species populations and sensitive habitat in or adjacent to work areas. Where necessary, install signage to prohibit access and/or flag areas being restored or protected for their biological value.	X			Environmental Surveyor					01560		

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NCCP/ HCP General Condition 5; Design Feature from EIR Section 2.6.7	Avoid driving or parking on sensitive and/or occupied habitat by keeping vehicles on roads and in designated staging areas.		X		Contractor					01560		
NCCP/ HCP General Condition 6	Deter unauthorized activities (such as trampling and off-road vehicle use) and perform litter abatement, including proper disposal of illegally dumped materials, as part of routine patrol of access roads.		X		Contractor					01560		
NCCP/ HCP General Condition 7	Monitor encroachment of non-native and invasive species into Covered Species populations and perform weed abatement as needed to improve the habitat.		X		Monitor: Environmental Surveyor  Abatement: Contractor					01560		
NCCP/ HCP General Condition 8; Standard Specification from EIR Section 2.6.7	Stabilize work areas to control erosion or sedimentation problems when working near Covered Species populations within the Plan Area. Populations within or adjacent to work areas would be protected from vehicular traffic, excessive foot traffic, or other activities that result in soil surface disturbance.	X	X		Contractor					01560		
NCCP/ HCP General Condition 9; Design Feature from EIR Section 2.6.7	Control dust when working near Covered Species populations and/or habitat in accordance with applicable regulations.		X		Contractor					01560		
NCCP/ HCP General Condition 10	All identified populations of Covered Species within rights-of-ways must be managed to control edge effects to the maximum extent possible.		X		Environmental Surveyor					01560		
NCCP/ HCP General Condition 11	Any restoration and monitoring program prepared as a component of the mitigation plan for impacts to a Covered Species shall include, but not be limited to, species propagation ratios, restoration site selection and assessment, site preparation, implementation strategies, weed control procedures, required management and monitoring in perpetuity, funding commitment, and reporting procedures. The program would be prepared in advance of project impacts and approved by the Wildlife Agencies.	X		X	Water Authority			Restoration to be conducted pursuant to existing Water Authority MTRP plan				
NCCP/ HCP General Condition 12	Any planting stock used shall be inspected by an Environmental Surveyor to ensure that it is free of pest species that may invade natural areas, including, but not limited to, Argentine ants ( <i>Iridomyrmex humii</i> ), fire ants ( <i>Solenopsis invicta</i> ), and other pests. Any planting stock that is infested would not be allowed within restoration areas or within 300 feet of native areas unless documentation is provided to the Wildlife Agencies that these pests already occur in the native areas around the		X	X	Inspection: Environmental Surveyor  Best Management Application: Contractor							



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	project site. The stock would be quarantined, treated, or disposed of according to best management principles by qualified experts in a manner that precludes invasions into native habitat. Runoff from mitigation sites into native habitat would be minimized and managed.											
NCCP/ HCP General Condition 13	To the maximum extent possible, conduct Covered Activities occurring within wetland habitats during the dry season when flows are at their lowest or nonexistent to minimize impacts to aquatic species and/or habitats.		X		Contractor					01560		
NCCP/ HCP General Condition 14	Reseed temporary impact areas with an appropriate native seed mix and allow for natural recolonization of the area by adjacent populations.		X		Contractor							
NCCP/ HCP General Condition 15	For new facilities adjacent to native habitat, minimize ornamental landscaping or irrigation not associated with native habitat restoration.	X			Water Authority	AJH	6/25/19	NA, no landscaping				
NCCP/ HCP General Condition 16	Collection of covered plant and wildlife species by Water Authority personnel and contractors is prohibited.		X		Water Authority/ Environmental Surveyor					01560		
NCCP/ HCP General Condition 17	Maintain and manage dispersal/movement corridors within the Plan Area that contribute to long-term population viability.	X			Water Authority							
NCCP/ HCP General Condition 18; Design Feature from EIR Section 2.6.7	The use of outdoor lighting within or adjacent to potential Covered Species habitat will be discouraged. If lighting must be used for reasons of safety and security, light sources would be shielded away from habitat and only low-pressure sodium or similar lighting would be used.		X		Contractor					01560		
NCCP/HCP Minimization Measure 1	The Water Authority will identify an Environmental Surveyor for the project to oversee pre-project evaluations/needs of Covered Activities and work with the project engineer and contractors to ensure implementation compliance of Covered Activities with Plan commitments.	X			Water Authority					01560		
NCCP/HCP Minimization Measure 2	If the Environmental Surveyor discovers that the Water Authority is out of compliance with the permits associated with this Plan, he/she will report the noncompliance to the Water Authority within one working day and to the Wildlife Agencies within five working days so that the Water Authority and Wildlife Agencies can determine how to put the Plan back into compliance.		X		Environmental Surveyor							
NCCP/HCP Minimization Measure 3; Standard Specification from EIR Section 2.6.7	Before any clearing and/or construction activities are performed in habitat areas that may support Covered Species, the Environmental Surveyor will review the site, identify any sensitive plant and animal species, and identify requirements pursuant to the Plan for impact avoidance and minimization. A standard PSF will be prepared for each project and submitted to the Water Authority for review and tracking purposes.	X			Environmental Surveyor					01560		

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NCCP/HCP Minimization Measure 4; Design Feature from EIR Section 2.6.7	The Environmental Surveyor will determine the extent of potential Covered Species habitat and will flag the sensitive resources to be avoided. If a Covered Species is present, the Environmental Surveyor will refer to Appendix B of the NCCP/HCP for species-specific conservation measures. In the case of unavoidable impacts to a Covered Species, the Environmental Surveyor will determine the extent of impact, the appropriate mitigation measures, and recommend to the project engineer additional measures to minimize impacts in accordance with Appendix B of the NCCP/HCP.	X			Environmental Surveyor					01560		
NCCP/HCP Minimization Measure 5; Design Feature from EIR Section 2.6.7	The Environmental Surveyor will work with the project engineer to identify and mark areas appropriate for staging and temporary equipment storage, placement of heavy machinery, as well as vehicle turn around and access, that will result in the least amount of impact to sensitive vegetation and/or Covered Species. The Environmental Surveyor will verify that all areas specified on the plans to be avoided are marked with flagging in the field prior to construction start.	X			Environmental Surveyor Water Authority					01560		
NCCP/HCP Minimization Measure 6; Standard Specification from EIR Section 2.6.7	The Environmental Surveyor will attend pre-construction meetings for projects in sensitive areas. The Environmental Surveyor will provide brief presentations to field staff, as needed, to familiarize field personnel with the natural resources to be protected and avoid on project sites and outline environmental expectations. The Environmental Surveyor will also be available to answer questions and address any last-minute construction changes.	X			Environmental Surveyor					01560		
NCCP/HCP Minimization Measure 7	The Environmental Surveyor will be present during clearing, topsoil salvage, and construction activities located within sensitive habitat. The frequency and duration of required monitoring will be specified in the PSF that is completed by the Environmental Surveyor and submitted to the Water Authority on a project-by-project basis prior to the start of construction.		X		Environmental Surveyor					01560		
NCCP/HCP Minimization Measure 8	The Environmental Surveyor will advise the construction manager during construction to ensure compliance with all avoidance, minimization, and mitigation measures.		X		Environmental Surveyor					01560		
NCCP/HCP Minimization Measure 9	The Environmental Surveyor will conduct (and document) monitoring as required by the Pre-Activity Survey Form (PSF). At the completion of the Covered Activity, the Environmental Surveyor will prepare a brief report to verify compliance with the avoidance and minimization recommendations in the PSF. This report will include documentation that the flagged areas were avoided and that minimization measures were properly implemented. The	X			Environmental Surveyor					01560		

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	Environmental Surveyor will be responsible for the identification and monitoring of any Covered Species that are found on the project site prior to and during construction activities. Monitoring activities will be in accordance with the species-specific measures.											
NCCP/HCP Minimization Measure 10	If any previously unidentified Covered Species or otherwise sensitive species, nests, dens, or burrows are located on a project site during construction activities, the Environmental Surveyor will provide guidance, through the construction manager, as to how best to minimize or avoid impacting the resource(s).		X		Environmental Surveyor							
NCCP/HCP Minimization Measure 11	The Environmental Surveyor will be on-call (via phone) to respond within 24 hours for potential emergency deployment to assess and monitor potentially critical biological issues.		X		Environmental Surveyor							
NCCP/HCP Minimization Measure 12	If the Environmental Surveyor determines that the Covered Activity is out of compliance with the requirements of the Plan, the Environmental Surveyor will report it to the Water Authority. The Water Authority will be responsible for bringing the project back into compliance and determine the appropriate remedial action, if necessary, through coordination with the Wildlife Agencies.			X	Environmental Surveyor							
NCCP/HCP Minimization Measure 13	The Environmental Surveyor or construction manager will be responsible for ensuring Contractor removal of all habitat flagging from the construction site at completion of work.			X	Environmental Surveyor					01560		
NCCP/HCP Minimization Measure 14	If included in the Pre-Activity Survey Form, the Environmental Surveyor will direct the relocation of Covered Species that can be moved from harm's way in coordination with the species-specific Conditions of Coverage in Appendix B of the NCCP/HCP (in non-emergency situations) with notification to the Wildlife Agencies.		X		Environmental Surveyor							
NCCP/HCP Minimization Measure 15	The Pre-Activity Survey Form will include avoidance, minimization, and mitigation requirements based on the general measures outlined in this section and the species-specific conditions in Appendix B of the NCCP/HCP. USFWS biological survey protocols performed by qualified and appropriately authorized personnel will be conducted where appropriate and required.	X			Environmental Surveyor					01560		
NCCP/HCP Minimization Measure 16; Design Feature from EIR Section 2.6.7	The pre-activity survey will be valid for 30 days unless the project is scheduled to begin during the avian breeding season, in which case the nesting bird clearance must be conducted within five days of project implementation (January 15 through July 31 for raptor species, March 15 through September 15 for riparian species, and	X			Environmental Surveyor					01560		

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	February 15 through August 15 for upland species). If ground disturbance activities have not commenced within 30 days after the survey is completed, the Environmental Surveyor will conduct a verification survey to confirm that biological conditions have not significantly changed that would alter the specified avoidance, minimization and mitigation commitments prior to construction.											
NCCP/HCP Minimization Measure 17	Field personnel working within sensitive habitat areas, including both Water Authority employees and contractors, will participate in an education training program at the start of each project. The training program will also educate field personnel in the identification of invasive species that may be removed, as well as desirable seeded and planted species, to ensure that native species are not affected by invasive species control. A fact sheet conveying this information will also be available to all personnel working in the project area. The Water Authority, either directly or through the services of the Environmental Surveyor, will be responsible for the education and training for new field personnel coming on-site after the start of a project.	X	X		Environmental Surveyor					01560		
NCCP/HCP Minimization Measure 18	Contractors or other project personnel will not collect plants or wildlife, unless specifically authorized and directed by the Environmental Surveyor. Only qualified and appropriately authorized personnel will handle or collect plants or wildlife as required by species-specific measures.		X		Contractor					01560		
NCCP/HCP Minimization Measure 19	Field personnel will not intentionally harm or harass wildlife or damage nests, burrows, rock outcrops, or other habitat components		X		Contractor					01560		
NCCP/HCP Minimization Measure 20	Drivers on unpaved roads in native habitats will not exceed a speed of 20 miles per hour in order to avoid injury to animals and minimize dust generation.		X		Contractor					01560		
NCCP/HCP Minimization Measure 21; Design Feature from EIR Section 2.6.7	Impacts to adjacent native vegetation that would be significantly affected by excessive fugitive dust will be avoided and minimized through watering of access roads (except in areas with vernal pools) or other appropriate measures, such as reducing the number or speed of vehicles or adding inert materials that reduce dust.		X		Contractor					01560		
NCCP/HCP Minimization Measure 22	Vehicles will not park in areas where catalytic converters may ignite vegetation. Construction vehicles will be equipped with shovels and fire extinguishers in order to reduce the risk of wildfires.		X		Contractor					01560		
NCCP/HCP Minimization Measure 23	Littering will be strictly prohibited. All trash will be deposited in secured, closed containers or hauled out daily by field personnel.		X		Contractor					01560		

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NCCP/HCP Minimization Measure 24	No pets will be allowed on any construction site.		X		Contractor					01560		
NCCP/HCP Minimization Measure 25	No firearms or other weapons will be allowed on any construction site except as carried by governmental law enforcement, or as authorized in writing by Water Authority staff.		X		Contractor					01560		
NCCP/HCP Minimization Measure 26	Field personnel will be prohibited from pushing or dumping soil and brush into sensitive habitats.		X		Contractor					01560		
NCCP/HCP Minimization Measure 27	All vehicles, tools, and machinery will be restricted to access roads, approved staging areas, or within designated construction zones.		X		Contractor					01560		
NCCP/HCP Minimization Measure 28	If any field personnel identify a previously unnoticed Covered Species on a construction site, work activities will cease in order to immediately notify the Water Authority's construction manager, project engineer, and the Environmental Surveyor. In conjunction with Water Authority environmental staff, the Environmental Surveyor will determine what actions would be taken to avoid or minimize impacts to the species according to the species-specific conditions outlined in Appendix B of the NCCP/HCP.		X		Contractor					01560		
NCCP/HCP Minimization Measure 29	Field personnel will notify the project engineer/environmental staff of any sick, injured, or dead wildlife found on site.		X		Contractor					01560		
NCCP/HCP Minimization Measure 30	Parking or driving underneath oak trees, except in established traffic areas, will not be allowed in order to protect root structures.		X		Contractor					01560		
NCCP/HCP Minimization Measure 31; Standard Specifications and Design Features from EIR Sections 2.6.6 through 2.6.8	Prior to the start of ground disturbing activities, the Contractor will prepare a Storm Water Pollution Prevention Plan (SWPPP) to reduce or eliminate pollutants during and after construction. The most current and applicable Best Management Practices (BMPs) will be implemented at all construction sites in or adjacent to native habitat in accordance with the project specifications. In addition to the approved manual, BMPs listed in the most recent National Pollutant Discharge Elimination System (NPDES) General Permit and the BMP Fact Sheet located in State Water Resources Control Board (SWRCB) General Permit for Small Linear Underground/Overhead Projects will apply.	X			Contractor					02271		
NCCP/HCP Minimization Measure 32	Refuse and trash will be regularly removed from activity sites and disposed of in a lawful manner. Petroleum products, including gasoline, diesel, and hydraulic fluid, will be used during construction in accordance with all		X		Contractor					02271		

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	federal, state, and local laws, regulations, and permitting requirements. In the event that hazardous materials are encountered or generated during construction, contractors certified by the responsible regulatory agency will conduct all recovery operations and dispose of hazardous waste in accordance with existing regulations and required permits. As required, petroleum products, trash, and other materials will be taken to a disposal facility authorized to accept such materials.											
NCCP/HCP Species Condition TM-1, GS-3	Encroachment of non-native species will be minimized by limiting soil disturbance within 50 feet of TM and GS populations.	X			Water Authority							
NCCP/HCP Species Condition TM-2, VD-1, GS-1	Establish a minimum habitat buffer of 100 feet when feasible around TM, VD, and GS populations to support the natural suite of pollinators, unless a biologically appropriate mitigation approach is agreed to with the Wildlife Agencies at the time of project-specific environmental review.	X			Water Authority							
NCCP/HCP Species Condition TM-3, GS-4	Focused surveys for TM and GS are conducted by the Environmental Surveyor for detection prior to any proposed impacts (e.g., during CEQA review).	X			Environmental Surveyor			Surveys conducted during spring 2019, with negative results				
NCCP/HCP Species Condition VD-2	For unavoidable impacts on VD, prepare a mitigation plan to re-establish populations at a final mitigation ratio that results in a no-net-loss of species population. The plan shall include, but not limited to, species propagation ratios, restoration site selection and assessment, site preparation, implementation strategies, weed control procedures, required management and monitoring in perpetuity, funding commitment, and reporting procedures. This plan would be prepared in advance of project impacts and approved by the Wildlife Agencies.	X			Water Authority			Direct impact on VD not anticipated, negative survey results during spring 2019				
NCCP/HCP Species Condition GS-2	Prescribed burning or mechanical thatch reduction can be effectively used to encourage GS populations.			X	Water Authority							
NCCP/HCP Species Condition QCB-1	Conduct a habitat assessment per the U.S. Fish and Wildlife Service (USFWS) protocol as part of the pre-activity survey to identify if suitable QCB habitat (as defined by USFWS 2002) is present within the project area. The pre-activity survey may be conducted year-round, regardless of the QCB flight season.	X			Water Authority			Completed in spring 2019				
NCCP/HCP Species Condition QCB-2	Where no suitable habitat for QCB is present, construction may occur in accordance with the Plan general Conditions for Coverage.		X		Water Authority							

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NCCP/HCP Species Condition QCB-3	If suitable QCB habitat is present, the project will avoid impacts to the habitat through project design considerations, to the extent feasible. If impacts are avoided, no species-specific mitigation is required.	X			Water Authority							
NCCP/HCP Species Condition QCB-4	If impacts to suitable QCB habitat cannot be avoided and project timing allows, conduct U.S. Fish and Wildlife Service protocol adult flight season surveys by a permitted Environmental Surveyor under favorable conditions in areas of suitable habitat for all Covered Activities.	X			Water Authority Environmental Surveyor			Negative surveys in spring 2019				
NCCP/HCP Species Condition QCB-5	If project timing does not allow adult flight season surveys in suitable QCB habitat, it will be assumed that the habitat is occupied. Unavoidable impacts to suitable but unoccupied habitat (as determined by protocol adult flight season surveys) will be mitigated in accordance with Tables 6-6 and 6-7 in the Plan. Unavoidable impacts to occupied QCB habitat will be mitigated at a 2:1 ratio with occupied habitat.	X			Water Authority			Negative surveys in spring 2019				
NCCP/HCP Species Condition QCB-6	If proposed impacts to occupied QCB habitat, as determined by surveys or assumed, are greater than 1 acre, the Water Authority will consult with the Wildlife Agencies to ensure that project implementation will not cause the extirpation of a QCB population.	X			Water Authority			Negative surveys in spring 2019				
NCCP/HCP Species Condition QCB-7	Projects having direct or indirect impacts to occupied QCB habitat shall establish biological buffers of at least 100 feet that shall be maintained adjacent to occupied QCB habitat, measured from the outer edge of the habitat patch.	X			Water Authority			Negative surveys in spring 2019				
NCCP/HCP Species Condition QCB-8	Reseed temporarily disturbed areas with appropriate native seed mix including QCB nectar sources and dot-seed plantain in appropriate habitat to regionally enhance re-colonization efforts.	X			Water Authority							
NCCP/HCP Species Condition WS-1, CW-1, OW-1, CRB-2, CL-1, RDR-2	Avoid or minimize impacts to WS, CW, OW, CRB, CL, and RDR habitat through project design and placement.	X			Water Authority							
NCCP/HCP Species Condition WS-2	Conduct pre-activity surveys under favorable conditions for WS in areas of potential habitat (including both potential breeding habitat and adjacent upland aestivation habitat) for all new facilities and O&M Activities conducted during the breeding and active foraging season of January 1 through June 30. Surveys must be performed for WS during appropriate field conditions (e.g., following adequate rainfall that would trigger breeding activity) in all vernal pools, seasonal depressions, or other areas that show evidence of standing water, prior to any proposed impact as part of the project review process (e.g., CEQA process). Surveys shall be conducted for potential WS habitat within	X			Environmental Surveyor							

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	the project impact area and within a 1,500-foot buffer around the impact area.											
NCCP/HCP Species Condition WS-3	<p>If work must be done in occupied WS breeding habitat during the WS breeding season, the following measures would be used to avoid or reduce impacts:</p> <p>a. If an Environmental Surveyor determines a need for fencing, exclusionary toad fences would be used to keep WS out of construction areas. These fences would be placed and monitored daily by an TC Environmental Surveyor familiar with WS ecology.</p> <p>b. Silt fence/drift fence and pitfall traps would be installed around the impact area adjacent to occupied breeding habitat at least 21 days prior to impact to minimize access by WS and to allow for removal of WS from the impact area to an adjacent protected area. An Environmental Surveyor experienced with the identification, handling, and ecology of the spadefoot shall implement and oversee proper installation of the toad exclusion fencing, relocation efforts, and monitoring. The exclusion fencing would be maintained until the completion of all construction activities within or adjacent to occupied spadefoot habitat. For the duration of construction, the enclosure would be surveyed on a daily basis early in the morning, and any WS that may have breached the fencing would be relocated.</p>		X		Environmental Surveyor							
NCCP/HCP Species Condition WS-4	Any wetlands created for mitigation for impacts to wetlands occupied by WS must be demonstrated to be capable of supporting the species prior to impacts, to ensure no-net-loss of occupied breeding habitat.	X			Water Authority			NA, no wetland creation				
NCCP/HCP Species Condition WS-5	To ensure that diseases are not conveyed between work sites by the authorized biologist or assistants, the fieldwork code of practice developed by the Declining Amphibian Populations Task Force (DAPTF) will be followed at all times. The DAPTF fieldwork code of practice is contained in Attachment B-2 at the end of this Appendix.		X		Environmental Surveyor							
NCCP/HCP Species Condition WS-6	When available, maintain and manage a 100-foot buffer area as foraging and burrowing habitat around known and newly discovered locations of WS.	X			Water Authority							
NCCP/HCP Species Condition WS-7	When possible, enhance WS populations that are declining and restore damaged habitat based on information obtained through monitoring or research of this species. Enhancement may include reduction of non-native species and other site-specific habitat improvement activities.	X			Water Authority							



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NCCP/HCP Species Condition WS-8	Bullfrogs and other exotic species that prey upon or displace WS would be removed from occupied habitat areas during restoration efforts.	X			Water Authority							
NCCP/HCP Species Condition OW-2	Minimize and manage effects from introduced ant species that may exclude the termite prey base during restoration efforts. All nursery stock plants will be checked for non-native ants before installation at restoration sites. Non-native ants that penetrate native habitats appear to be partially supported by artificial irrigation associated with landscaping (Suarez et al. 1998). Therefore, runoff from mitigation sites in native habitat would be minimized and managed.	X			Water Authority							
NCCP/HCP Species Condition CRB-1	Maintain adequate rocky, downed woody, and other organic debris.	X			Water Authority							
NCCP/HCP Species Condition RNS-1	Avoid or minimize impacts to rocky outcrop and/or boulder-dominated microhabitats through project design and placement.	X			Water Authority							
NCCP/HCP Species Condition RDR-1	If a RDR is observed in the construction area, the snake should be moved by an Environmental Surveyor to the closest safe, suitable habitat in the area. Exclusionary fences may be used to keep snakes out of construction areas. These fences would be placed and monitored daily.		X		Environmental Surveyor							
NCCP/HCP Species Condition LS-1, RS-1, HL-1, CG-2, GSW-1	Minimize impacts through timing of work in LS, RS, HL, CG, and GSW suitable habitat to avoid the nesting season whenever possible or ensure that habitat is removed prior to the initiation of the breeding season. If construction activities must commence during the breeding season, minimize impacts through conducting nest surveys within 300 feet of all proposed activities should be conducted during the breeding season (February 15 through August 15). If active nests are encountered, no Covered Activities shall be implemented within a minimum distance of 100 feet of the nest. A greater setback (up to 300 feet) may be required, as determined by the Environmental Surveyor, based on the site-specific considerations, phase of the nesting cycle, and species or other biological considerations (see Section 2.4, Buffers in Appendix B of the NCCP/HCP). Direct take of individuals and destruction of nests within an active territory is not allowed.	X	X		Environmental Surveyor					01560		
NCCP/HCP Species Condition HL-2	If construction activities must commence during the upland avian breeding season, develop a Wildlife Agency approved survey protocol to improve the detectability of horned lark nests.	X	X		Environmental Surveyor							

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NCCP/HCP Species Condition CG-1	Conduct U.S. Fish and Wildlife Service protocol surveys for CG under favorable conditions in areas of potential foraging or breeding habitat for all new facilities and O&M Activities, or assume occupancy of potential habitat, to ensure that this species is adequately addressed by impact avoidance, minimization, and mitigation.	X	X		Environmental Surveyor			Occupancy assumed based on recent observations				
NCCP/HCP Species Condition CG-3, GSW-2	Direct take of individuals and destruction of CG and GSW nests within an active territory are not allowed.	X	X		Contractor/ Environmental Surveyor							
NCCP/HCP Species Condition CG-4	For temporary impacts to occupied CG habitat, the work site would be returned to preexisting contours, where feasible, and revegetation with appropriate locally native species. All revegetation plans would require written concurrence of the Wildlife Agencies. Also, see Section 6.4, Plan Minimization Measures, of the NCCP/HCP.			X	Contractor/ Environmental Surveyor							
NCCP/HCP Species Condition DM-1, PM-1, DW-1	Implement a small-mammal live trapping and identification program in suitable habitat to determine the presence or absence of DM, PM, and DW. Alternatively, assume presence of these species and implement condition DM-2, PM-2, and DW-2, as listed below.	X			Environmental Surveyor							
NCCP/HCP Species Condition DM-2, PM-2, DW-2	If DM, PM, or DW is observed and burrows will be affected by project-related disturbance, a pre-construction live trapping and relocation program will be implemented by the Environmental Surveyor at the impact areas in which this species was observed. Individuals will be relocated into adjacent suitable habitat areas or preserves, and/or the Environmental Surveyor will provide measures to ensure exclusion during construction activities. Relocation would be determined and conducted by an Environmental Surveyor in consultation with the Wildlife Agencies.	X			Environmental Surveyor					01560		
NCCP/HCP Species Condition DW-3	Avoid to the maximum extent possible impacts to DW sticknests.	X	X		Water Authority/ Contractor					01560		
NCCP/HCP Species Condition DW-4	For temporary impacts to occupied DW habitat, incorporate suitable habitat elements, such as rock and brush piles, into the habitat restoration plan.			X	Environmental Surveyor							
NCCP/HCP Narrow Endemic Policy Condition-1	Narrow endemic species population will always be avoided to the maximum extent practicable.	X	X		Water Authority							
NCCP/HCP Narrow Endemic Policy Condition-2	For new project, an 80 percent avoidance policy will apply, excluding existing Water Authority rights-of-way (including easements and fee-owned parcels). Covered Projects that cannot meet the 80 percent avoidance policy due to additional site and planning constraints will implement a Wildlife Agency- approved biologically equivalent or superior alternative.	X			Water Authority							

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NCCP/HCP Narrow Endemic Policy Condition-3	Pre-activity surveys will be used to identify the location of narrow endemic populations to ensure that they are avoided and protected in accordance with the NCCP/HCP narrow endemic policy (see Appendix F of the plan).	X			Environmental Surveyor							
NCCP/HCP Narrow Endemic Policy Condition-4	Mitigation for unavoidable impacts will be designed to minimize adverse effects to species viability and to contribute to the biological objects of the Plan.	X			Water Authority							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 1	California Department Fish and Wildlife employees are authorized to conduct on-site inspections relevant to San Diego County Water Authority NCCP/HCP Section 6.6.1.1, upon reasonable notice.		X		Water Authority							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 2	Silty/turbid water shall not be discharged into the stream. Such water shall be settled, filtered, or otherwise treated prior to discharge. The Contractor's ability to minimize turbidity/siltation shall be the subject of pre-construction planning and design feature implementation.		X		Water Authority Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 3	Preparation shall be made so that runoff from steep, erodible surfaces will be diverted into stable areas with little erosion potential. Frequent water checks shall be placed on dirt roads, cat tracks, or other work trails to control erosion.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 4	Water containing mud, silt, or other pollutants from equipment washing or other activities shall not be allowed to enter a lake or flowing stream or placed in locations that may be subjected to high storm flows.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 5	Notwithstanding the use of silt catchment basins, upon Department determination that turbidity/siltation levels resulting from project related activities constitute a significant threat to aquatic life, activities associated with the turbidity/siltation, shall be halted until effective Department approved control devices are installed or abatement procedures are initiated.		X		Water Authority Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 6	Precautions to minimize turbidity/siltation shall be taken into account during project planning and shall be installed prior to construction. This may require that the work site be isolated and that water be diverted around the work area by means of a barrier, temporary culvert, new channel, or other means approved by CDFG. Precautions may also include placement of silt fencing, straw bales, sand bags, and/or the construction of silt catchment basins so that silt or other deleterious materials are not allowed to pass to downstream reaches. The method used to prevent siltation shall be monitored and cleaned/repared weekly, or more frequently if warranted by local conditions. CDFG shall provide any determinations or approvals in writing within 14 days of receiving from the Water Authority or its agents	X			Water Authority Contractor							

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	a written request which includes a plan sheet or diagram indicating how the work site will be isolated.											
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 7; Design Feature BIO-4	No equipment shall be operated in ponded or flowing areas except as otherwise addressed in Water Authority project's Notification of Lake or Streambed Alteration application, contract specifications, and any applicable regulatory permits.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 8	Rock, gravel, and/or other materials shall not be imported to, taken from, or moved within the bed or banks of the stream except as otherwise specifically identified in the project's Notification of Lake or Streambed Alteration application.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 9	Temporary fills shall be constructed of nonerodible materials and shall be removed immediately upon work completion.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 10	If operations require moving equipment across a flowing stream, such operations shall be conducted without substantially increasing stream turbidity. Where repeated crossings could result in a substantial increase in stream turbidity, the Water Authority shall install a permanent or temporary bridge, culvert, or rock-fill crossing as approved by the Water Authority Project Engineer.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 11	If a stream channel and/or gradient have been temporarily altered during construction, it shall be returned as nearly as possible to pre-project conditions without creating a possible future bank erosion problem. If a lake margin has been altered, it shall be returned as nearly as possible to pre-project conditions without creating a future bank erosion problem.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 12	Structures and associated materials not designed to withstand high seasonal flows shall be removed to areas above the high water mark before such flows occur.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 13	Spoil sites shall not be located within a stream/lake, or where spoil shall be washed back into a stream/lake, or where it will cover aquatic or riparian vegetation, unless the site is specifically identified in the project's Notification of Lake or Streambed Alteration application.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 14	Staging/storage areas for equipment and materials shall be located outside of the stream, unless the area is specifically identified in the project's Notification of Lake or Streambed Alteration application.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 15	Access to the work site shall be via existing roads and access ramps when legally available to the Water Authority and its contractors for such use.		X		Water Authority Contractor							

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NCCP/HCP Appendix I: Lake, Stream, River Work Condition 16	No equipment maintenance shall be done within or near any stream channel where petroleum products or other pollutants from the equipment may enter these areas under any flow.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 17	No debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete or washings thereof, oil or petroleum products or other organic or earthen material from any construction, or associated activity of whatever nature shall be allowed to enter into or placed where it may be washed by rainfall or runoff into waters of the State. When operations are completed, any excess materials or debris shall be removed from the work area. No rubbish shall be deposited within 150 feet of the high water mark of any stream or lake.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 18	The Water Authority and its contractors, subcontractors, and employees shall comply with all litter and pollution laws. It is the responsibility of the Water Authority to ensure compliance.		X		Water Authority Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 19	Any equipment or vehicles driven and/or operated within or adjacent to the stream/lake shall be checked and maintained daily to prevent leaks of materials that if introduced to water could be deleterious to aquatic life.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 20	Stationary equipment such as motors, pumps, generators, and welders located within or adjacent to the stream/lake shall be positioned over drip pans or confined within berms capable of containing any spills.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 21	The clean-up of all spills shall begin immediately. CDFG shall be notified immediately by the Water Authority of any spills that affect aquatic habitat, and shall be consulted regarding clean-up procedures.		X		Water Authority Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 22	Any materials placed in seasonally dry portions of a stream or lake that could be washed downstream or could be deleterious to aquatic life shall be removed from the project site prior to inundation by high flows.		X		Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 23	All in-stream structures shall be designed so that no sudden change in stream velocity shall occur above, below, or in the structure. If a sudden change in stream velocities occurs upon installation of the structure, the structure shall be removed immediately.	X			Water Authority Contractor							
NCCP/HCP Appendix I: Lake, Stream, River Work Condition 24	If any wildlife is encountered in the stream or lake zone during the course of construction, said wildlife shall be allowed to leave the construction area unharmed.		X		Contractor							
PMPP Condition 1	The Water Authority and Contractor must allow representatives from U.S. Army Corps of Engineer to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been		X		Water Authority Contractor							

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	accomplished with the terms and conditions of your permit.											
PMPP Condition 2	The Permittee shall follow, adhere to and implement authorized eligible activities as described in the Department of Army permit.		X		Water Authority							
PMPP Condition 3	The Permittee shall ensure all temporary impacts sites within waters of the U.S., including wetlands are restored to pre-project alignments, elevation contours, and conditions, including revegetation with appropriate native plant species after completion of construction in the temporary impact area, as described in the Temporary Impact Restoration Plan (TIRP) for each authorized eligible activity. At a minimum, the acreage of waters of the U.S., including wetlands of each temporarily impacted site shall equal or exceed pre-project acreage of waters of the U.S., including wetlands and resource functions by the end of the monitoring period as specified in the TIRP. Functions for temporary impact areas shall be assessed and submitted to the Corps Regulatory Division prior to releasing the Permittee's revegetation obligation by submitting pre-site and post-site photographs or other functional assessment methods to the Corps Regulatory Division. The Permittee's responsibility to complete the required restoration as set forth in this special condition shall not be considered fulfilled until the Permittee has met or exceeded all final performance standards identified in the TIRP for each impact area and has obtained written confirmation (via letter or email) from the Corps Regulatory Division verifying successful restoration.		X	X	Water Authority							
PMPP Condition 4	Prior to initiating construction in waters of the U.S., including wetlands the Permittee shall submit to the Corps Regulatory Division a complete set of final detailed grading/construction plans showing all work and structures in waters of the U.S., including wetlands for a proposed eligible activity. All plans shall be submitted on paper no larger than 11x17 inches. No work in waters of the U.S., including wetlands is authorized until the Corps Regulatory Division receives and approves (via email or letter) the final detailed grading/construction plans.	X			Water Authority							
PMPP Condition 5	The Water Authority shall ensure that the project is built in accordance with the final detailed grading/construction plans submitted to and approved by the Corps Regulatory Division. Adverse impacts to waters of the U.S., including wetlands beyond the Corps-approved construction footprint are not authorized. Such impacts could result in		X		Water Authority							

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	permit suspension and revocation, administrative, civil or criminal penalties, and/or substantial, additional, compensatory mitigation requirements.											
PMPP Condition 6	The Contractor shall clearly mark the limits of the workspace with plastic snow fencing, silt fencing, or flagging to ensure mechanized equipment does not enter waters of the U.S., including wetlands beyond the Corps-approved construction footprint as shown on plans, maps, drawings or figures submitted to the Corps Regulatory Division for each eligible activity.	X	X		Contractor					01560		
PMPP Condition 7	The Water Authority shall staff one or more qualified biologists/environmental monitors on site during project activities in the waters of the U.S., including wetlands to ensure compliance with all requirements of this permit and ensure that adverse impacts do not occur outside of the permitted project area.		X		Water Authority					01560		
PMPP Condition 8	The Water Authority shall report any non-compliance incident with the permit to the Corps Regulatory Division (760-602-4829) within one day of its occurrence. The Permittee/qualified biological/ environmental monitor shall submit a written report summarizing the noncompliance with the permit and any measures implemented to rectify the incident to the Corps Regulatory Division within seven days of notification to the Corps Regulatory Office.		X		Water Authority Environmental Surveyor							
PMPP Condition 9	Temporary stockpiling is not authorized within waters of the U.S., including wetlands.		X		Contractor							
PMPP Condition 10	The Water Authority shall ensure that all vehicle maintenance, staging, storage, laydown areas and dispensing of fuel occurs outside of Corps jurisdiction as per Corps approved project site plans. The Permittee shall ensure that these designated areas are located in such a manner as to prevent any runoff from entering waters of the U.S., including wetlands and special aquatic sites.		X		Water Authority Environmental Surveyor							
PMPP Condition 11	During construction, the Contractor shall isolate authorized work activities from flowing stream segments using temporary cofferdams and restore the work area to pre-project conditions after work is complete as per Corp approved site plans. Temporary cofferdams shall be constructed of materials that shall not introduce sediment to the stream channel and shall be completely removed following completion of the work activity.		X		Contractor							
PMPP Condition 12	The Contractor shall discharge only clean construction materials permitted for use in waters of the U.S., including wetlands. The Contractor shall ensure no debris, soil, silt, sand, sawdust, rubbish, cement or concrete washings thereof, oil or petroleum products, from construction shall		X		Contractor							

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	be allowed to enter into or placed where it may be washed by rainfall or runoff into waters of the U.S., including wetlands. Upon completion of the eligible activity authorized herein, any and all excess material or debris shall be completely removed from the waters of the U.S., including wetlands.											
PMPP Condition 13	Upon completion of work activities, the Contractor shall remove all excess excavated material from waters of the U.S., including wetlands to an upland storage site designated on project plans outside of the 100-year floodplain or an otherwise Corps-approved upland disposal site.			X	Contractor							
PMPP Condition 14	Within six months of completion of authorized work in waters of the U.S., including wetlands, the Permittee shall submit to the Corps Regulatory Division a post-project implementation memorandum including the following information: a. Date(s) work within waters of the U.S., including wetlands was initiated and completed; b. Summary of compliance status with each special condition of this permit (including any noncompliance that previously occurred or is currently occurring and corrective actions taken or proposed to achieve compliance); c. Color photographs (including map of photo-points) taken at the project site before and after construction for those aspects directly associated with permanent impacts to waters of the U.S., including wetlands and special aquatic sites such that the extent of authorized fills can be verified; d. One copy of "as built" drawings for the entire project. Electronic submittal (Adobe PDF format) is preferred. All sheets must be signed, dated, and to-scale. If submitting paper copies, sheets must be no larger than 11 x 17 inches; and e. Signed Certification of Compliance			X	Water Authority							
<b>CULTURAL RESOURCES</b>												
Mitigation Measure CR 1-1	Prior to construction, a qualified archaeologist shall flag the construction zone around CA- SDI-12018, including a 10-foot buffer zone, so that impacts occur entirely outside the boundaries of the resource.	X			Water Authority							
Mitigation Measure CR 2-1	In the event that unanticipated cultural resources are encountered during project construction, all earthmoving activities shall cease until the qualified archaeologist examines the findings, assesses their significance, and offers recommendations for procedures deemed		X		Contractor Water Authority					01560		



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	appropriate to either further investigate or mitigate adverse impacts to those cultural resources that have been encountered (e.g., excavate the significant resource).											
Mitigation Measure CR 2-2	If human bone or bones of unknown origin are found during project construction, all work shall stop in the vicinity of the find and the County Coroner and the Water Authority shall be contacted immediately. If the remains are determined to be Native American, the Coroner shall notify the Native American Heritage Commission who shall notify the person it believes to be the most likely descendant. The most likely descendant shall work with the Water Authority to develop a program for reinterment of the human remains and any associated artifacts. No additional work shall take place within the immediate vicinity of the find until the identified appropriate actions have been completed. Any collection of artifacts resulting from the surveys and monitoring, as well as the associated records, shall be curated at an appropriate institution in San Diego County that meets the standards of the State of California Guidelines for the Curation of Archaeological Collections.		X		Contractor Water Authority					01560		
PMPP Condition 1	If the Contractor discovers any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, the Water Authority must immediately notify the Army Corps of what you have found. The Army Corps will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.		X		Water Authority Contractor					01560		
<b>GEOLOGY AND SOILS</b>												
Standard Specification GS-1	The Storm Water Pollution Prevention Program specification section will be used as standard specifications to minimize soil erosion for construction projects.		X		Contractor					02271		
Design Feature GS-1	The project will include design features to minimize or avoid general geology and soils impacts.	X	X		Water Authority Contractor							
Design Feature GS-2	The project will include design features to minimize or avoid instability of manufactured slopes and retaining walls.	X	X		Water Authority							
Design Feature GS-3	The project will include design features to minimize or avoid differential compression or settlement of on-site soils.	X	X		Water Authority							

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Design Feature GS-4	Project development will conform to applicable industry standards (e.g., the UBC and/or Greenbook) regarding corrosive soils. A site-specific investigation of potential corrosion hazards will be conducted in areas deemed appropriate by a qualified corrosion engineer for the proposed project. The results of this analysis will be checked against the final project design, as appropriate, to address potential corrosion impacts, and may include, but not be limited to, measures such as: a) Excavation (or overexcavation) and treatment, and/or removal and replacement (i.e., with engineered fill) of corrosive materials. b) Use of non-corrosive and/or corrosion-resistant building materials in appropriate locations and installation of cathodic protection.	X	X		Water Authority							
<b>HYDROLOGY / WATER QUALITY</b>												
Standard Specifications HWQ-1	Comply with Regional Water Quality Control Board Waste Discharge requirements under Orders R9-2014-0041 and R9-2015-0013. Obtain authorization, as required, prior to discharge of groundwater, and comply with the sampling, testing, monitoring, and reporting requirements specified therein.	X			Contractor					02140		
Standard Specifications HWQ-2	Dispose of water in such a manner as to cause no injury or nuisance to public or private property, or be a menace to the public health. Dispose of the water in accordance with applicable regulatory agency requirements. Prevent disposal of sediments from the soils to adjacent lands or waterways by employing necessary methods, including settling basins. Locate settling basins away from watercourses to prevent silt-bearing water from reaching the watercourse during flow regime. Where excavations may obstruct the natural flow of a watercourse, implement measures to control and dispose of the surface water that will not adversely affect water quality or beneficial uses of the watercourse. Divert watercourse flows around excavation areas by constructing barriers, temporary culverts, new channels or other appropriate means. Do not allow water containing mud, silt or other pollutants from aggregate washing or other construction activities to enter a watercourse or be placed in locations that may be subjected to high storm flows.	X	X		Contractor					02140		
Standard Specifications HWQ-3	For projects with soil disturbances of one acre or more, comply with the NPDES General Permit for Storm Water Discharges Associated with Construction Activity and requirements included herein.		X		Contractor							

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Standard Specifications HWQ-4	Grade disturbed surfaces to provide positive drainage and prevent ponding of water. Surface water shall be controlled to prevent water damage or deposition of sediment to all adjoining and downstream properties. Install silt fences, sedimentation ponds, sandbag dikes, stabilized construction entrances and any other erosion control measure to minimize sediment escape from the construction site and to maintain runoff quality in compliance with the General Permit. Prevent construction sediment from entering any streams, ponds or drainage facilities. Erosion and sedimentation control measures shall remain in place until such time that the site of work is prepared for permanent drainage and erosion control measures. Remove temporary erosion and sediment control measures so as not to interfere with permanent drainage, erosion control and revegetation.		X		Contractor					02140, 02271		
Design Features HWQ-1	The grading/construction contractor will conform to applicable NPDES General Groundwater Extraction and Waste Discharge Permit criteria prior to disposal of extracted groundwater.		X		Contractor					02140, 02271		
<b>NOISE</b>												
Mitigation Measure N 1-1; Standard Specification and Design Feature from EIR Section 2.6.4	No motor driven semi-stationary equipment shall be operated continuously under load within 500 feet of any residences at night (7:00 pm – 7:00 a.m.) unless a temporary noise propagation barrier is erected, and/or enhanced mufflers are used to reduce noise exposure at any adjacent building facade to 45 dB L <sub>eq</sub> .		X		Contractor			Night construction near residences requires noise wall		01560		
Mitigation Measure N 1-2	The contractor shall use portable noise screens or enclosures to provide shielding for high noise activities or equipment as necessary.		X		Contractor					01560		
Mitigation Measure N 1-3; N 2-2	The Water Authority shall monitor noise levels during construction to ensure compliance with the noise thresholds.		X		Water Authority Environmental Surveyor					01560		
Mitigation Measure N 2-1	The Water Authority shall construct a temporary sound wall along the western boundary of the North Portal staging area and the Pipeline Interconnect Reconfiguration site to reduce construction noise levels at the Belsera property line.		X		Water Authority Contractor					01560		
Mitigation Measure N 3-1	The Water Authority shall monitor all blasting activities to confirm that they are consistent with the Water Authority's General Conditions and Standard Specifications, Section 02229, including: a) Blasting shall only be conducted during construction when other practicable excavation methods are not available.		X		Water Authority Environmental Surveyor			Blasting not anticipated for this phase of the project.				

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	<p>b) Advanced written notification of the date and time of any blasting activities shall be provided to all residents and businesses within 400 feet of the blast area.</p> <p>c) A Blast Plan will be developed and approved by the local regulatory authority in the event that blasting is necessary.</p>											
Mitigation Measure N 3-2	Blast monitoring shall be required for all blasting operations within the City, including monitoring of ground motions, peak particle velocity, and air blast levels.		X		Water Authority Environmental Surveyor			Blasting not anticipated for this phase of the project.				
Mitigation Measure N 3-3	The hours of blasting shall be determined by site specific requirements and blasting shall be limited to daytime hours between 7:00 a.m. and 7:00 p.m., Monday through Saturday.		X		Contractor			Blasting not anticipated for this phase of the project.				
Mitigation Measure N 3-4	If the blasting results in vibration or blast levels with a PPV in excess of 2.0 inches/second, modifications to the procedures shall be implemented, such as using different delay patterns, reduction in size of the individual blasts, shorter and/or smaller diameter blast holes, closer spacing of blast holes, reduction of explosives, blast mats, sound walls, or a combination. A properly designed noise barrier can reduce noise as much as 20 dBA.		X		Contractor			Blasting not anticipated for this phase of the project.				
Mitigation Measure N 3-5	A public outreach program shall be implemented to alert the public to the potential for vibrations and noise associated with blasting.	X			Water Authority			Blasting not anticipated for this phase of the project.				
<b>PALEONTOLOGICAL RESOURCES</b>												
Mitigation Measure PR 1-1	<p>The following measures shall be carried out by a qualified professional paleontologist:</p> <p>a) Existing bedrock outcrops and (possibly) excavation of test trenches shall be inspected for fossil remains.</p> <p>b) Surface collection of discovered fossil remains shall be conducted via simple excavation of exposed specimens and possibly plaster-jacketing of large and/or fragile specimens or more elaborate quarry excavations of richly fossiliferous deposits.</p> <p>c) Stratigraphic and geologic data shall be recovered to provide context for recovered fossil remains. These data will typically include a description of lithologies of fossil-bearing strata, measurement and description of the overall stratigraphic section, and photographic documentation of the setting. Laboratory preparation of collected fossil remains</p>		X		Water Authority							

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	<p>shall be conducted for potentially significant or unique finds.</p> <p>d) Prepared significant or unique fossil remains shall be cataloged and identified. Cataloged fossil remains shall be transferred for storage to an accredited institution.</p> <p>A final report summarizing the findings from the laboratory and field, stratigraphic units inspected, types of fossils discovered, and the significance of the curated collection shall be prepared.</p>											
<b>PUBLIC SAFETY AND HAZARDOUS MATERIALS</b>												
Mitigation Measure PS 1-1	Before completion of final design plans and specifications, all proposed project construction areas shall be investigated to determine if there is a record of hazardous materials contamination (Phase I Environmental Site Assessment). If so, the Water Authority shall characterize the site(s) according to the nature and extent of soil contamination, and determine the need for further investigation and/or remediation of the soils conditions on the contaminated site.	X			Water Authority							
Mitigation Measure PS 1-2	If warranted, a Phase II investigation shall be conducted. The Phase II investigation shall, at a minimum, involve soil sampling. Should further investigation reveal high levels of hazardous materials in the site soils, mitigate health and safety risks according to County Department of Environmental Health and Regional Water Quality Control Board regulations. This will include site- specific health and safety plans prepared prior to construction.	X			Water Authority							
Mitigation Measure PS 1-3	Prior to the start of construction, a qualified contractor shall survey all project construction sites, including access roads in MTRP, for the presence of unexploded ordnance. The survey shall include identification of potential unexploded ordnance locations and a determination of the presence or absence of unexploded ordnance in the area. Once the survey is completed, a qualified contractor shall arrange for the removal of any unexploded ordnance found. In addition, the unexploded ordnance contractor shall provide training, as needed, to construction contractors related to the identification of unexploded ordnance.	X			Contractor							

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Mitigation Measure PS 2-1	Prior to approval of final design plans and specifications, a Fire Prevention Program shall be developed in consultation with the Fire Marshal for each component of the proposed project. The program shall address fire prevention for the construction period and for long-term maintenance activities.	X			Contractor					01560		
Mitigation Measure PS 2-2	Prior to completion of construction, an Emergency Response Plan (ERP) shall be developed by the Water Authority (facility operator) in coordination with the County Office of Emergency Services, the County Environmental Health Department, and the appropriate Fire Protection District.	X	X		Water Authority							
Standard Specification PS-1	The Contractor is responsible for maintaining an orderly project site and providing jobsite security, and to that end shall employ such watchmen or other persons and implement other appropriate security as may be required.		X		Contractor					01505		
Standard Specification PS-2	The Contractor shall prohibit the use or possession of intoxicating liquors or controlled substance at the jobsite or in any vehicle or equipment used in performance of the Work.		X		Contractor							
Standard Specification PS-3	The Contractor shall provide, erect, or maintain temporary fences, plates, over-crossings, trench bridges, bridges, railings, barriers, and traffic control devices, lights, warning signals, guards, street sweeping, trash removal, vector control and other security devices and systems appropriate to assure public health and safety.		X		Contractor							
Standard Specification PS-4	Minimize fire danger in the vicinity of and adjacent to the construction site. Provide labor and equipment to protect the surrounding private property from fire damage resulting from construction operations.		X		Contractor					01015, 01560		
Standard Specification PS-5	Provide temporary fencing of all open or partially open trenches and excavations, all open or partially completed structures, and all work and storage areas at all times while unattended by workmen.		X		Contractor							
Standard Specification PS-6	Establish a regular daily collection of all sanitary and organic wastes. Dispose of away from the site all wastes and refuse from sanitary facilities provided by the Contractor or organic material wastes from any other source related to the Contractor's operations in accordance with all laws and regulations pertaining thereto.		X		Contractor					01560		

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Standard Specification PS-7	Blasting-relates submittals include a two-part conceptual blasting plan prior to the start of drilling. Part 1, the General Plan is required to include a complete summary of proposed methods for transporting, handling, storage, and use of explosives. Requirements of Part 2, the Site Specific Plan, include: The Site Specific Plan shall include the proposed general concept for trench excavation blasting, including controlled blasting techniques and control and monitoring of fly rock, airblast and ground vibration. Blasting intensities shall be limited as required to prevent damage to all existing structures, and in no case, shall intensities exceed the safety standard of particle velocity recommended by the U.S. Bureau of Mines [RI 8507].		X		Contractor			Blasting not anticipated for this phase of the project.				
Standard Specification PS-8	Retain the services of a qualified blasting consultant specialist to assist in the preparation of reports of the required blasting plans and verification of reports.		X		Contractor			Blasting not anticipated for this phase of the project.				
Standard Specification PS-9	Conform to the requirements specified in the State of California Construction Safety Orders for the transporting, handling, storage, and use of explosives. Transportation of explosives shall be in accordance with the regulations of the State Fire Marshall and the California Highway Patrol. The locations, access and construction of explosive storage magazines shall be in accordance with the American Table of Distances for Storage of Explosives and approved by the Chief of San Diego County Fire Department and the Sheriff of San Diego County. Blasting shall only be permitted between the hours of 8:00 a.m. and 4:00 p.m. during any weekday (Monday through Friday), unless special circumstances warrant another time or day, and special approval is granted in writing by the Engineer and the agency having jurisdiction.		X		Contractor			Blasting not anticipated for this phase of the project.				
Standard Specification PS-10	No blasting shall be permitted until the Contractor receives notification in writing from the Engineer that the blasting plans have been reviewed and until all preblast inspections and reports have been completed. Provide a minimum of two working days advance notice to all residences or businesses within 400 feet of the blast area. Provide two-work days' notice to all utility agencies whose facilities may be influenced by the blasting operation.	X	X		Contractor			Blasting not anticipated for this phase of the project.				

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Standard Specification PS-11	Conduct preblast inspections of all residential, commercial, and Water Authority structures, and other improvements and facilities as necessary, within 400 feet of the blast area. . . .The preblast inspection shall be for the purpose of determining the existence any visible or reasonably recognizable pre-existing defects or damages in any structure and for quality control and construction record purposes. . . .Conduct post-blast inspections upon receipt of a written or verbal request or complaint of damage to property, structure, or other improvement from the respective owners.	X			Contractor			Blasting not anticipated for this phase of the project.				
Standard Specification PS-12	Fly rock shall be contained within the project rights of way and shall not represent a hazard to people, vehicles, existing improvements or vegetation. Use blasting mats to prevent possible flyrock damage. At the end of each working day, clean the blasting site of all debris associated with the blasting operation.		X		Contractor			Blasting not anticipated for this phase of the project.				
Design Feature PS -1	Prior to authorization to proceed or issuance of permits, the Water Authority will prepare a Fire Prevention and Response Plan. All construction crewmembers will be trained in the requirements of the plan. The plan will outline the responsibilities for the prevention, pre-suppression, and suppression activities associated with fire within MTRP.		X		Contractor					01560		
Design Feature PS-2	Fire safety information will be disseminated to construction crews during regular safety meetings. Fire management techniques will be applied during project construction and deemed necessary by the Water Authority and depending on the on-site vegetation and vegetation of surrounding areas		X		Contractor					01560		
Design Feature PS -3	The Contractor will be required to conduct ongoing worker training for all levels of construction personnel, including weekly safety meetings.		X		Contractor							
<b>RECREATION</b>												
Design Feature R-1	Roads and trails within MTRP that are within the area affected by the proposed project will be closed for the duration of construction to avoid potential conflicts between construction activities and recreational activities. All road and trail closures will be well marked and alternative routes will be identified. All roads and trails within the area affected by the proposed project will be restored to existing conditions, or better, following construction.		X		Water Authority					01580		



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<b>TRAFFIC/CIRCULATION</b>												
Standard Specification TC-1	Haul excavated materials from the work site to approved disposal location(s) during the hours permitted in accordance with local traffic control regulations. Provide traffic control as required by the agency having jurisdiction.		X		Contractor					02200		
Design Feature TC-1	Prior to construction, the contractor will prepare the detailed Traffic Control Plan for review by the Water Authority and approval by the City of San Diego. The plan will be prepared in accordance with the latest edition of the Federal Highway Administration Manual of Uniform Traffic Control Devices, as modified by the most recent California Supplement.	X	X		Contractor					01522		
Design Feature TC-2	Hours of operation for trucks associated with the project grading and construction, including hauling of excess materials out of MTRP and construction materials into MTRP, will be restricted to 7:00 a.m. to 7:00 p.m., Monday through Saturday.		X		Contractor							
<b>UTILITIES AND PUBLIC SERVICE</b>												
Standard Specifications UPS-1	Do not operate vehicles or equipment and do not place, push, store or stockpile vehicles, equipment, supplies, tools, fabricated or manufactured articles, fuel supplies, field office facilities, excavated or imported materials of any kind, and do not perform an work within 15 feet of the centerline of existing Water Authority-owned pipelines, except where specified or shown on the Plans, or where permission is granted in writing by the Engineer. At designated crossing locations of existing Water Authority-owned pipelines, limit equipment loads to the live load limits shown or specified. At these locations, if the Contractor elects to cross existing Water Authority-owned pipelines with equipment loads in excess of the live load limits shown or specified, erect temporary bridges for use by equipment that exceeds the specified live load limits.		X		Contractor					01530		
Standard Specifications UPS-2	All utilities including oil and gasoline pipelines, power, and telephone or communication cable ducts, gas and water mains, irrigation lines, sewer lines, storm drain lines, poles, and overhead power and communication wires and cables encountered along the line of the work shall remain continuously in service during all operations under the Contract, unless other arrangements satisfactory to the Engineer are made with the owner of said utility.		X		Contractor					01530		

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Design Feature UPS-1	The Water Authority will notify and coordinate with all other utility providers with easements, rights-of-way, or facilities within or adjacent to the area affected by the proposed project. Any need to connect with or relocate utilities will be presented to the appropriate utility provider prior to commencement of construction.		X		Water Authority					01530		

Notes:

- CG= Coastal California Gnatcatcher
- CL= Coastal (Western) Horned Lizard
- CRB= Coastal Rosy Boa
- CS= Coronado Skink
- DPM= Dulzura (California) Pocket Mouse
- DW= San Diego Desert Woodrat
- GS= Goldstar
- GSW= Grasshopper Sparrow
- HL= California Horned Lark
- LS= Loggerhead Shrike
- OW= Belding Orange-throated Whiptail
- PM= Northwestern San Diego Pocket Mouse
- QCB= Quino Checkerspot Butterfly
- RDR= (Northern) Red Diamond Rattlesnake
- RS= Southern California Rufous-crowned Sparrow
- RNS= San Diego Ringneck Snake
- TM= Thorn-mint
- VD= Variegated Dudleya
- WS= Western Spadefoot