Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
	it is determined by the qualified biologist that the young				
	have fledged and are no longer dependent on the nest or				
	burrow for survival. Typically, the young fledge by				
	August 31. Actual fledging dates may be earlier or later,				
	and shall be determined by the qualified biologist.				
	Buffer distances may be reduced on an activity-by-				
	activity basis and with the guidance of the qualified				
	biologist and prior approval by the California				
	Department of Fish and Wildlife. The standard buffer				
	distances shall only be reduced to a size that retains "no				
	disturbance" to burrowing owls.				
	San Joaquin Kit Fox				
	Specific to San Joaquin kit fox, the qualified biologist				
	shall implement Standardized Recommendations for				
	Protection of the Endangered San Joaquin Kit Fox				
	Prior to or During Ground Disturbance (USFWS				
	2011). These include the following:				
	Pre-activity surveys shall be conducted prior to the				
	beginning of activities likely to impact the San Joaquin				
	kit fox. If any evidence of site occupation by San				
	Joaquin kit fox is observed, an avoidance buffer (see				
	above) shall be established by a qualified biological				
	monitor. If dens must be removed, they must be				
	monitored for a minimum of three consecutive nights				
	using cameras or tracking medium to determine kit fox				
	use. If there is no kit fox activity for three consecutive				
	nights, dens may be collapsed. If dens are actively being				
	used by kit fox, no collapse of the den is permitted until				
	all individuals have vacated the den. Destruction of				
	natal dens and other "known" kit fox dens must not				

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
	occur until authorized by U.S. Fish and Wildlife				
	Service. Once kit foxes have been confirmed to have				
	vacated the den, and U.S. Fish Wildlife Service				
	approval has been obtained, dens may subsequently be hand excavated by a trained wildlife biologist.				
	Replacement dens must be constructed in suitable				
	habitat outside of the activity area.				
	Kern-Tulare Water District shall appoint a				
	representative to be the point of contact for any				
	employee or contractor who might inadvertently kill or				
	injure a kit fox, or who finds a dead, injured, or				
	entrapped individual. The point of contact's name and				
	telephone number shall be provided to the U.S. Fish				
	Wildlife Service and California Department of Fish and Wildlife. If any kit fox is inadvertently injured or killed				
	during construction or operations, all work shall				
	immediately stop until the cause of injury is determined,				
	and a plan to avoid any additional injury has been				
	implemented in consultation with the qualified biologist				
	and the U.S. Fish Wildlife Service and California				
	Department of Fish and Wildlife.				
	Any operator, or representative, contractor or				
	subcontractor who inadvertently kills or injures a San				
	Joaquin kit fox shall immediately report the incident to				
	their point of contact. The point of contact shall contact				
	the USFWS and CDFW immediately in the case of a				
	dead, injured or entrapped kit fox. The CDFW contact				
	for immediate assistance is State Dispatch at (916) 445-				
	0045. State Dispatch shall contact the local warden or				

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
	biologist. The U.S. Fish Wildlife Service and California				
	Department of Fish and Wildlife shall be notified via phone within 24 hours and in writing within three working days of the accidental death or injury to a San Joaquin kit fox during activities. Notification must include the date, time, and location of the incident or of the finding of a dead or injured animal, and any other pertinent information.				
	Tricolored Blackbird Specific to tricolored blackbird, construction activities shall avoid riparian areas during the breeding season. If it is not feasible to avoid these riparian areas during the breeding season (February 15 to September 15), then surveys for the tricolored blackbird shall be conducted following the guidelines in Tricolored Blackbird Survey Protocols (UC Davis 2008). If tricolored blackbirds are found on an activity site, activities shall be designed in such a manner as to avoid them and their habitat by 250 feet until young have fledged. Modifications to the habitat that would result in the inability of the tricolored blackbird to use the site for breeding in future breeding seasons shall be prohibited.				
	MM 4.4-2: GENERAL MEASURES TO PROTECT BIOLOGICAL RESOURCES DURING CONSTRUCTION	Steps to Com The co		implemen	t the listed
4.4-1	During construction, the following general measures shall be implemented to protect biological resources: • All construction equipment shall be maintained	measu The D	res at the construction site. District shall periodically insperent that the measures are be	ect the co	onstruction

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
	properly to ensure that it is all in good working order.				
	• Construction-related leaks and spills shall be promptly repaired and cleaned up.				
	 Vehicle access and storage of vehicles, equipment, and materials shall be limited to existing dirt roads and previously disturbed areas. 				
	 Project-related vehicles shall observe a 20 mph for unpaved roads and 25 mph for paved roads speed limit in an activity area, except on county roads and State and federal highways. Nighttime construction traffic shall be limited to emergency traffic only. 				
	 Dogs and other pets shall not be allowed within the activity area. 				
	 No firearms shall be permitted within the activity area. Exceptions include those carried by agents of public law enforcement and security personnel. 				
	 All materials staged on an activity site shall be inspected thoroughly prior to being moved to ensure no special-status species or sheltering within the materials. 				
	• To prevent inadvertent entrapment of animals during the construction phase of an activity, all excavated, steep-walled holes or trenches more than 2-feet deep shall be covered at the close of each working day by				
	plywood or similar materials, or be provided with escape ramps at a rate of one ramp every 100 feet. Escape ramps may be constructed of earth fill or				
	wooden planks with a slope no steeper than 45 degrees. If wooden planks are used, perpendicular				

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
	groves or rungs shall be proved to aid in traction. All holes and trenches, whether covered or uncovered, more than 2-feet deep shall be inspected daily for trapped animals regardless of whether or not work is occurring in that area. Before holes or trenches are filled, they shall be thoroughly inspected for trapped animals.				
	Species may be attracted to den-like structures such as pipes, culverts, pallets, wire bales, and construction equipment. All pipes 4-inch diameter or greater that are stored on an activity site shall be securely capped or covered to prevent use by species. Materials and equipment shall be thoroughly inspected for the presence of special-status species before being buried, capped, or otherwise used or moved in any way. If species are discovered within staged materials or equipment, all activity in the immediate area shall stop until the species has vacated the area on its own accord.				
	• Use of rodenticides and herbicides in an activity area shall be restricted. This is necessary to prevent impacts to special-status species and the species that may be affected secondarily. All uses of such compounds shall observe label and other restrictions mandated by the U.S. Environmental Protection Agency, California Department of Food and Agriculture, and other State and federal legislation, as well as additional activity-related restrictions deemed necessary by the U.S. Fish Wildlife Service and California Department of Fish and Wildlife. If rodent control must be conducted, zinc phosphide				

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
	 shall be used because of a proven lower risk to secondary carnivores. All food-related trash such as wrappers, cans, bottles, and food scraps shall be disposed of in closed containers and removed at least once a week from an activity site. No plants or wildlife shall be collected, taken, or removed from an activity site. 				
4.4-1	MM 4.4-3: WORKER ENVIRONMENTAL AWARENESS PROGRAM Prior to construction, a Worker Environmental Awareness Program shall be developed and implemented in which individuals, including employees of contractors and subcontractors, who work on an activity site are informed about the sensitive biological resources in the area. This program shall consist of an onsite or training center presentation that may include a PowerPoint presentation and/or written materials for each participant. The program shall discuss the locations and types of sensitive biological resources on and near the Project site, an overview of the laws and regulations governing the protection of biological resources, the reasons for protecting these resources, the various protection measures to be implemented, and identify official points of contact should questions or issues arise. Workers shall also be trained and directed to recognize species (live or dead) as well as nests, dens, and burrows, and they shall coordinate with the assigned biologists to assure accurate records of the locations of any species (alive or dead) observed in the vicinity of an activity.	Steps to Compliance The District so develop and Awareness Probiological reso (live or dead) If necessary, assigned biol locations of a vicinity of an	shall contract with a q implement a Wor ogram to inform individuances in the area and as well as nests, dens, a individuals shall co ogist to assure accur any species (live or de	ker Enviduals about to recogning burrow coordinate recognad) obse	vironmental ut sensitive itze species ws. with the rds of the rved in the

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
	Each participant shall be required to sign a statement declaring that the individual employee understands and will abide by the guidelines set forth in the program materials. A list of all participants shall be maintained and provided to wildlife agency representatives upon request. The program shall be presented annually and as needed to ensure that all workers receive training prior to being allowed to work on an activity site, and to ensure compliance with all protection measures.				
4.4-1	MM 4.4-4: OIL AND GREASE DAILY MAXIMUM LIMITATION TO PROTECT WILDLIFE During operation, produced water shall not exceed a daily maximum limitation of 35 milligrams/liter of oil and grease. As part of the required reporting to the Central Valley Regional Water Quality Control Board, this daily maximum limitation shall be included as part of the reporting in order to ensure that this limitation is being met for the benefit of wildlife and, particularly, migratory birds and waterfowl that use the Pacific Flyway.	 Steps to Compliance: The District shall periodically test the produced water to ensure that it does not exceed a daily maximum limitation of 35 milligrams/liter of oil and grease. The District shall report findings of testing to the Central Valley Regional Water Quality Control Board (RWQCB) as part of reporting requirements related to associated. 			
4.4-3	MM 4.4-5: CLEAN WATER ACT SECTION 404 PERMIT Prior to construction, the District shall determine whether the U.S. Army Corps of Engineers (Corps) considers some or all of the affected drainages and/or basins waters of the United States and that the Project would result in the discharge of dredged or fill material into such waters. If the Corps determines that the Project would affect waters of the United States under the Corps' jurisdiction, then the District shall obtain an approved Clean Water Act Section 404 Permit from the	Steps to Compliance: The District shall determine whether the U.S. Arm Corps of Engineers (Corps) will take jurisdiction over some or all of the affected drainages. If the Corps takes jurisdiction over some or all of the affected drainages, then the District shall submit a application and pay necessary fees to the Corps. Prior to construction, the District shall obtain a			all of the submit an cobtain an

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency Date Initials		
	Corps prior to the commencement of construction activities.				
4.4-3	MM 4.4-6: CLEAN WATER ACT SECTION 401 WATER QUALITY CERIFICATION Prior to construction, the District shall determine whether the State Water Resources Control Board (SWRCB) and Central Valley Regional Water Quality Control Board (RWQCB) consider some or all of the affected drainages and/or basins waters of the State. If the SWRCB and Central Valley RWQCB determine that the Project would affect waters of the State, then the District shall either 1) verify coverage under an allowable Nation Wide Permit or 2) obtain an approved Clean Water Act Section 401 Water Quality Certification prior to the commencement of construction activities.	Resources Cor Regional Water jurisdiction ov If the SWRCE or all of the either verify of Permit or subr	District, State Water Resources Control Board, Central Valley Regional Water Quality Control Board (RWQCB) standard (SWRCB) and Central Valley r Quality Control Board (RWQCB) will take yer some or all of the affected drainages. B and RWQCB takes jurisdiction over some affected drainages, then the District shall coverage under an allowable Nation Wide mit an application, and pay necessary fees. Instruction, the District shall obtain an A Section 404 Water Quality Certification.		
4.4-3	MM 4.4-7: LAKE AND STREAMBED ALTERATION AGREEMENT Prior to construction, the District shall determine whether the California Department of Wildlife (CDFW) consider the bed, channel, or banks of affected drainages and/or basins under their regulatory control. If the CDFW determines that the Project affects bed, channel, or banks under their control, then the District shall obtain an approved Lake and Streambed Alteration Agreement prior to the commencement of construction activities.	• The District consider the b and/or basins to the District has been solved in the District than the District halteration Agr. • Prior to consider the beautiful to the District halteration and the District halteration and the District halteration and the District halteration and the District halteration are the District halteration and the District halteration are the District halteration and the District halteration and the District halteration and the District halteration are the District halteration a	liance: Istrict shall determine whether CDFW will the bed, channel, or banks of affected drainages asins under their regulatory control. DFW considers such features under their control, to District shall submit a Lake and Streambed on Agreement application and pay necessary fees. To construction, the District shall obtain an d Lake and Streambed Alteration Agreement.		

Cultural Resources

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency Date Initials
4.5-1	MM 4.5-1: CEASE WORK IF HISTORIC OR PREHISTORIC CULTURAL RESOURCE(S) FOUND In the event historic-era or prehistoric cultural materials are encountered during construction or ground disturbance activities, all work within 50 feet of the find shall cease immediately and the area cordoned off until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeologist can evaluate the find and recommendations can be made. If the qualified archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from Project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation. All reports, correspondence, and determinations regarding prehistoric or historic-era cultural materials found on the site shall be submitted to the California Historical Resources Information System's Southern San Joaquin Valley Information Center at California State University, Bakersfield.	Steps to Compliance: If historic-era encountered do activities, then area shall be concerned. The District shall to evaluate the commendation and evaluation reporting.	or prehistoric cultural materials are uring construction or ground disturbance all work within 50 feet shall cease and the ordoned off. The property of the p
4.5-2	MM 4.5-2: WORKER CULTURAL AWARENESS PROGRAM Prior to the issuance of grading or building permits, and for the duration of construction activities, a Construction Worker Environmental and Cultural Awareness Training Program shall be provided to all new	Prior to issuance of grading or building permits and during construction Steps to Compliance: The District sh	District all contract with a qualified archaeologist

Impact	Mitigation Measure	Timeframe Responsible Monitoring Agency Date Initials
	construction workers within one week of employment at the Project site. The training shall be prepared and conducted by a qualified archaeologist and Native American representative. The training may be in the form of a video. The qualified archaeologist and Native American representative shall be available to answer questions posed by workers. The training may be discontinued when ground disturbance is completed or suspended, but must resume when construction activities resume. The training shall include, but not be limited to: • A discussion of applicable cultural resources statues, regulations, and related enforcement provisions; • An overview of the prehistoric and historic environmental setting and context as well as current cultural information regarding local tribal groups provided by the Native American representative; • A summary of the effects of the Project on cultural resources; • Samples or visuals of artifacts that might be found in the Project area; • A discussion of what such artifacts may look like when partially or totally buried and then freshly exposed; • A discussion of what prehistoric and historic archaeological deposits look like at the surface and when exposed during construction; • Instruction that in the event cultural resources are unearthed during ground-disturbing activities, the qualified archaeologist shall be empowered to halt	and Native American representative to develop and implement a Worker Cultural Awareness Program to be presented to new construction workers. The qualified archaeologist and Native American representative shall provide an informational guide that identifies the reporting procedures in the event of a discovery. The District shall provide a sticker to be placed on each worker's hard hat acknowledging that the worker has completed the cultural training. The District shall retain a copy of the training transcript and/or training video, as well as a list of the names of all personnel who attended the training and copies of the signed acknowledgement forms shall be kept by the District.

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
	or redirect ground-disturbing activities away from the vicinity of the discovery until the qualified archaeologist has evaluated the find, determined whether the find is culturally sensitive, and designs an appropriate short- and long-term treatment plan. The qualified archaeologist shall establish an appropriate protocols and procedures for minimizing impacts during construction and future impacts during Project operation and maintenance; • An informational guide that identifies the reporting procedures in the event of a discovery; • Other information as deemed necessary by the qualified archaeologist or Native American representative; • An acknowledgement form signed by each working indicating that cultural training has been completed; • A sticker that shall be placed on hard hats indicating that the worker has completed the cultural training. Construction workers shall not be permitted to operate equipment within the construction area unless they have attended the training and are wearing hard hats with the required sticker; and • A copy of the training transcript and/or training video, as well as a list of the names of all personnel who attended the training and copies of the signed		Monitoring Agency		
	acknowledgement forms shall be kept by the District.				
4.5-2	MM 4.5-3: ARCHAEOLOGICAL MONITOR The services of a qualified archaeological monitor shall be retained by the District to monitor ground-disturbing activities during construction in areas of the area of		nce: ct shall contract with a qua		chaeologist

Impact	Mitigation Measure	Timeframe	Responsible Date Initials
	potential effect determined to be moderately sensitive for buried archaeological deposits. The qualified archaeological monitor shall be provided all Project documentation related to cultural resources prior to commencement of ground disturbance activities. Project documentation shall include, but not be limited to, previous cultural studies, surveys, maps, drawings, etc. Any modifications or updates to project documentation, including construction plans and schedules, shall immediately be provided to the qualified archaeological monitor.	 archaeologic In the event monitoring, 	to be moderately sensitive for buried al deposit. that cultural resources are unearthed during the protocol established in Mitigation 4.5-1 shall be implemented.
4.5-3	MM 4.5-4: AS-NEEDED PALEONTOLOGICAL MONITOR If any fossil remain are uncovered during construction, all work in that area shall cease and a 50-foot buffer established until a qualified paleontologist can determine scientific importance of the find. If the fossils are evaluated to be scientifically important, the qualified paleontologist shall remove them. If warranted, the qualified paleontologist shall make collections of exposed fossils from the lithologic units of high paleontological importance. All vertebrate and representative samples of mega-invertebrate and plant fossils shall be collected. The qualified paleontologist shall be equipped to allow for the rapid removal of fossil remains and/or matrix and thus reduce the potential for any construction delays. Depending upon the paleontologic importance of the rock unit, the rock shall be examined periodically for microfossils by wet or dry screening. If important fossil remains are found as a result of screening, samples of sufficient size to generate	• If any fossils shall cease at The District determine the If warranted	ce: s are uncovered during construction, all work nd a 50-foot buffer established. shall contract with a qualified paleontologist to significance of the find. , the paleontologist shall make collections of sils and follow protocols established in this

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency Date Initials
	a representation of the organisms preserved shall be collected and processed, if warranted, onsite or at a convenient location. The reports documenting the fossil finds shall be submitted to an accredited institution such as the Vertebrate Paleontology Division of Natural History Museum of Los Angeles County or the University of California Museum of Paleontology at the Berkeley Natural History Museum.		
4.5-4	MM 4.5-5: DISCOVERY OF HUMAN REMAINS In the event that human remains are discovered, further excavation or disturbance shall be prohibited pursuant to California Health and Safety Code Section 7050.5. The specific protocol, guidelines, and channels of communication outlined by the Native American Heritage Commission, in accordance with Health and Safety Code Section 7050.5, Public Resources Code Section 5097.98, and Senate Bill 447 shall be followed. In the event of the discovery of human remains, at the direction of the county coroner, Health and Safety Code Section 7050.5(c) shall guide potential Native American consultation.	 If human renfurther excavathe County Co The County determine if N No work shall 	District, Coroner (if needed), Native American Representative(s) (if needed) and needed) contains are discovered during construction, ation or disturbance shall be prohibited and proner shall be notified. Coroner shall assess the discovery and lative American consultation is warranted. I occur until the County Coroner has given commence work.

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Geology and Soils

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency Date Init					
4.6-1	MM 4.6-1: PREPARE GEOTECHNICAL STUDY Prior to final design, a geotechnical study shall be prepared for the Project site, and recommendations of the study shall be incorporated into final design of the Project. The study shall include recommendations on proper recompaction of native soil deposits at the two reservoir sites in order to properly engineer the dams for the reservoirs. The study shall also include an analysis of the potential for collapsible and expansive soils at the site as well as design remedies in the event that such soils are present and could pose a geotechnical hazard to the Project facilities.	Steps to Compliance: The District shall contract with a qualified engineer or other professional to prepare a site-specific geotechnical report. The recommendation of the report shall be incorporated into final design.						
4.6-1	MM 4.6-2: MINIMIZE GROUND DISTURBANCE During construction, the contractor(s) shall limit ground disturbance to the minimum area necessary for construction and operation of the Project.	disturbance to	tion contractor(s) si the greatest extent feas all verify in the field the	ible.				
4.6-1	MM 4.6-3: USE EXISTING ROADS During construction, the contractor(s) shall use existing roads to the greatest extent feasible to minimize erosion.	During construction Steps to Compliance: The construction the greatest extended the construction of the	District on contractor(s) shall utent feasible. all verify in the field the					

4.8-2

4.8-2

During constru RESPONSIBLE FOR sponsible Impact Mitigation Measure Initials Date onitoring Agency strict; Division of MM 4.8-1: RE-ABANDON **PREVIOUSLY** Gas. and **UNKNOWN OIL WELL(S)** eothermal If, during construction, a previously unknown Resources (if abandoned oil well is uncovered or damaged during needed) **Steps to Compliance:**

ground-disturbance activities, all work shall cease in the vicinity of the well, and the Division of Oil, Gas, and Geothermal Resources shall be contacted requirements and approvals. Such requirements will likely include the submittal and approval of Notice of Intention to Abandon/Re-Abandon Well (OG108), No work shall occur in the vicinity of a well until Division approval has been granted and the affected well has been re-abandoned to the satisfaction of the Division.

granted and the affected well has been re-abandoned to the satisfaction of DOGGR.

and approvals.

FOR

MM 4.8-2: PROVIDE DUST MASKS TO CONSTRUCTION WORKERS

During construction, the construction contractor(s) shall make dust masks available to all construction workers and shall make workers aware that there is the possibility of exposure to, and the risks associated with the inhaling of, environmentally-persistent pesticides, residual hydrocarbons, and the Coccidioides fungus that could be found in the Project site's soil.

During construction District Steps to Compliance:

The construction contractor(s) shall make dust masks available to all construction workers and shall make workers aware that there is the possibility of exposure to, and the risks associated with the inhaling of, residual environmentally-persistent pesticides. hydrocarbons, and the Coccidioides fungus.

If a previously unknown well is uncovered or damaged

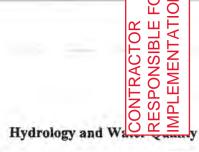
during construction, all work shall cease in the vicinity of

the well, and the Division of Oil, Gas, and Geothermal

Resources (DOGGR) shall be contacted for requirements

Work shall not commence until approval has been

The District shall verify in the field that this mitigation is being implemented.



Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
4.9-1	PREVENTION PLAN Prior to ground-disturbing activities, the District shall prepare and implement a Stormwater Pollution Prevention Plan that specifies best management practices, with the intent of keeping all products of erosion from moving offsite. The Stormwater Pollution Prevention Plan shall include contain a site map that shows the construction site perimeter, existing and proposed man-made facilities, stormwater collection and discharge points, general topography both before and after construction, and drainage patterns across the Project site. Additionally, the Stormwater Pollution Prevention Plan shall contain a visual monitoring program and a chemical monitoring program for nonvisible pollutants to be implemented (if there is a failure of best management practices). The requirements of the Stormwater Pollution Prevention Plan shall be incorporated into design specifications and construction contracts. Recommended best management practices for the construction phase may include the following: Stockpiling and disposing of demolition debris, concrete, and soil properly. Protecting any existing storm drain inlets and stabilizing disturbed areas. Implementing erosion controls. Properly managing construction materials. Managing waste, aggressively controlling litter, and implementing sediment controls.	The District sprepare a (SWPPP). The construct management part the visual more program. The District sibeing implement	shall contract with a quality of the stormwater Pollution ion contractor(s) shall practices outlined in the sitoring program and a shall verify in the field to	Prever impleme s SWPPI chemical	ent all bes ent all bes monitoring

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency Date Initials
4.9-1	MM 4.9-2: WASTE DISCHARGE REQUIREMENTS Prior to Project operation, the District shall obtain approved Waste Discharge Requirements from the Central Valley Regional Water Quality Control Board that includes Water Quality Objectives to protect the quality of waters of the State.	 Discharge and Prior to operate and Streamber During operate 	District, Central Valley RWQCB shall submit an Application of Waste pay necessary fees to the RWQCB. tion, the District shall obtain approved Lake Alteration Agreement Requirements. ation, the District shall adhere to all including any testing and reporting
4.9-8	MM 4.9-3: NEW DAM AND ASSOCIATED RESERVOIR APPLICATIONS Prior to construction of the Guzman and Section 35 Reservoirs, the District shall submit an application to the Department of Water Resources Division of Safety of Dams for each earthen embankment and associated reservoir and receive written approval of plans and specifications for each earthen embankment and reservoir from the Division of Safety of Dams. Per California Water Code, Division 3, Dams and Reservoirs, and California Code of Regulations, Title 23, Division 2, Chapter 1, Dams and Reservoirs, the applications shall include: Name and address of the owner; Location, type, size, and height of the proposed dam or reservoir and appurtenant works; Storage capacity of the reservoir; As accurately as may be readily obtained, the area of the drainage basin, rainfall and stream flow records and flood flow records and estimates;	Safety of Dassociated res Prior to const	submit an application to the Division of ams for each earthen embankment and ervoir. truction of dams, the District shall receive oval of plans and specifications for each ankment and reservoir from Division of

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
	 Purpose for which the impounded or diverted water is to be used; 				
	 Maps and plans and specifications of such character and size and setting forth such pertinent details and dimensions as the Division of Safety of Dams requires; 				
	• Copy of an entitlement to the use of water issued by the State Water Resources Control Board or a statement of the legal basis of the right;				
	 Evidence that a statement of water diversion and use has been filed with State Water Resources Control Board or a statement either establishing that a statement of water diversion and use is not legally required, or showing good cause for not filing one; 				
	• Evidence of water rights;				
	• Information necessary to enable the department to comply with the requirements of California Environmental Quality Act, either a copy of an environmental impact report or negative declaration, or evidence that a lead agency is preparing or shall prepare environmental documentation or data and information necessary for the department to act as a lead agency to prepare environmental documentation;				
	 Filing fee based upon estimated cost of the dam and/or reservoir as set forth in California Water Code, Division 3, Section 6300; and 				
	 Such other pertinent information as the Division of Safety of Dams requires. 				

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
	Per Division of Safety of Dams' guidance, the				
	applications may also need to include:				
	 Data concerning subsoil and foundation conditions and the materials entering into construction of the dam or reservoir; 				
	 Investigations of, and reports on, subsurface conditions, involving such matters as exploratory pits, trenches and adits, drilling, coring, geophysical 				
	surveys, tests to determine leakage rates, and physical tests to measure in place the properties and				
	behavior of foundation materials at the dam or reservoir site;				
	 Investigations of, and reports on, the geology of the dam or reservoir site and its vicinity, possible geologic hazards, availability and quality of construction materials, and other pertinent features; or 				
	 Such other appropriate information as may be necessary in a given instance. 				
	Plans and specifications submitted to Division of Safety of Dams shall be prepared by, and the work of				
	construction, enlargement, repair, alteration or removal				
	of a dam or reservoir shall be under the responsible				
	charge of, a civil engineer registered pursuant to State				
	law or of such other person as may be permitted under				
	the provisions of the Business and Professions Code to assume responsible charge of such work.				
	MM 4.9-4: NOTICES OF COMPLETION	Upon completion of	District, Division of		
4.9-8	Upon completion of the Guzman and Section 35	dams	Safety of Dams		
	Reservoirs, the District shall give notices of completion		•		

Impact	Mitigation Measure	Timeframe	Responsible Date Initials
	 to Division of Safety of Dams and, as soon thereafter as possible, file supplementary drawings or descriptive matter showing or describing the earthen embankment and associated reservoir as actually constructed, including the following: A record of all grout holes and grouting; A record of permanent location points and bench marks; A record of tests of concrete or other material used in the construction of the dam or reservoir; and Any other items which may be of permanent value and have a bearing on the safety and permanency of the dam or reservoir. 	of completion	tion of dams, the District shall give notices to Division of Safety of Dams and, as soon possible, file supplementary drawings or atter.
	MM 4.9-5: CERTIFICATES OF APPROVAL	Prior to impounding	
	Prior to impounding water, either through action or inaction, at the Guzman and Section 35 Reservoirs, the	water in dams	Safety of Dams
4.9-8	District shall receive certificates of approval from the	Steps to Compliance	
	Division of Safety of Dams that finds the that the	_	ounding water in dams, the District shall icates of approval from the Division of
	Reservoirs are safe to impound water within the limitations prescribed in the certificates.	Safety of Dam	

Noise

Impact	Mitiga	tion Measu	ire		Timeframe Responsible Monitoring Agency Date					
4.11-1	chosen effective constructions Federal hearing educati	construction construction de Hearing action period Regulation protection on, and rec	Conservation od in compliant ons 1910.95, an devices, emorate or condition of the condition	conservation shall require that the have established an Program during the ce with 29 Code of including providing ployee training and e chosen contractor(s) of of compliance.	Hearing Conse	District truction, the District ervation Program has be all retain a proof of cor	en establ	ished.		

Transportation and Traffic

Impact	Mitigation Measure	Timeframe	Responsible Monitoring Agency	Date	Initials
4.12-1	MM 4.12-1: ENCROACHMENT PERMIT Prior to construction of the 18-inch pipeline alignment under State Route 65, the District shall submit a Standard Encroachment Permit Application (TR-0100) to, and receive an approved encroachment permit from, the California Department of Transportation, District 6,	Steps to Compliance	District, California Department of Transportation	omia	
4.12-1	Encroachment Permits Office. As required by Caltrans, the application shall include supporting documentation such as, but not limited to: plans, location map, environmental documentation, letter of authorization, surety bonds, liability insurance, any applicable fees, etc.	Application (7 Transportation (Caltrans). Prior to con	TR-0100) to the Califo , District 6, Encroache struction, the District oachment permit from 0	rnia Dep nent Pern	artment of nits Office

Title: Kern-Tulare Water District Oil Field Water Reuse Project Tracking Number: EA-15-006 Anticipated Start Date: August 2017 Approximate Duration: 6 months Natural Resources Specialist: Jennifer L. Lewis, illewis@usbr.gov, 559-487-5197 Wildlife Biologist: Shauna McDonald, smcdonald@usbr.gov, 559-487-5202 Architectural Historian: Kevin (Lex) Palmer, kpalmer@usbr.gov, 916-978-5213							Point of Contact: Steve Dalke Kern-Tulare Water District sdalke@kern-tulare.com				
	Summary of Environmental	Timeform	Party	Proponent Verification of Compliance			Reclamation Verification of Compliance				
Resource	Commitments	Timeframe for Implementation	Responsible for Implementation	Initials	Date	Commitment Implementati on Date	Verification Interval	Final Verification Date	Initials	Date of Verification	
Air Quality	The District shall comply with applicable emission standards set by the San Joaquin Valley Air Pollution Control District. This includes following construction dust ordinance or other Best Management Practices.	Duration of the Project	Contractor				Once				
Biological Resources	A qualified biologist shall conduct surveys for bald eagle and other raptors on and within 500' of an activity site for active raptor nests prior to onsite activities. If raptors are found to occur, their active nest shall be avoided by 500'. The 500' no-disturbance area can be reduced if it is determined by a qualified biologists that activities do not affect breeding success. If found to occur, active golden eagle nests shall be avoided by 1 mile and activities shall not occur within line-of-sight of active nests	Prior to Construction	KTWD				Once				
Biological Resources	Specific to other migratory birds protected by the Migratory Bird	Prior to Construction	KTWD				Once				



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	Summary of Environmental	Timeframe for	Party Responsible for Implementation	Proponent Verification of Compliance			Reclamation Verification of Compliance			
Resource	Summary of Environmental Commitments	Implementation		Initials	Date	Commitment Implementati on Date	Verification Interval	Final Verification Date	Initials	Date of Verification
	Treaty Act, the qualified biologist shall conduct the survey for active bird nests at an activity site if activities are scheduled to occur during the breeding season (February 15 through September 15). The survey shall include the site and no less than 500' outside of site boundaries. If active nests are located within the site boundaries, construction activities shall be restricted as necessary to avoid disturbance of the nest until it is abandoned or a qualified biologist deems disturbance potential to be minimal (in consultation with U.S. Fish and Wildlife Service and California Department of Fish and Wildlife). Restrictions may include establishment of avoidance buffers (no ingress of personnel or equipment at a minimum radius of 50' or more									



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Resource	Commitments	Implementation		Initials	Date	Commitment Implementati on Date	Verification Interval	Final Verification Date	Initials	Date of Verification
	recommended by the biologist) or alteration of the construction schedule. All observed nests shall be monitored by a qualified biologist to determine nest status and the potential for nest abandonment.									
Biological Resources	For the protection of San Joaquin kit fox, applicable avoidance measures from Service (2011) would be implemented. Those measures that are applicable are the ones that do not involve take (such as den destruction).	Prior to Construction	KTWD				Once			
Cultural Resources	In the unlikely event that unanticipated buried archaeological deposits are encountered during construction, work in the immediate vicinity of the discovery must cease until the find can be evaluated by Reclamation and managed pursuant to the requirements of 36 Code of Federal Regulations (CFR) 800.13 and other	Duration of the Project	KTWD				Once			



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Resource	Summary of Environmental Commitments	Timeframe for Implementation	Party Responsible for Implementation	Proponent Verification of Compliance		Reclamation Verification of Compliance				
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Water Resources	applicable Federal laws and regulations. If human remains are inadvertently discovered, Reclamation will comply fully with Native American Graves Protection and Repatriation Act of 1990 as outlined at 43 CFR Part 10, and other Federal laws and regulations as applicable. The District would be subject to the National Pollutant Discharge Elimination System (NPDES) Permit for stormwater discharges associated with construction and	During Construction	Contractor				Once			
Water Resources	Iand disturbance activities. The District shall follow the Monitoring and Reporting Program, as per their NPDES permit, to minimize impact to water resources	Duration of the Project	Contractor				Once			
Water Resources	The District would meet the Central Valley Regional Water Quality Control Board issued Water Quality Objectives associated with their Waste	Duration of the Project	KTWD				Once			



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Wildlife Biologist: Shauna McDonald, smcdonald@usbr.gov, 559-487-5202 Architectural Historian: Kevin (Lex) Palmer, kpalmer@usbr.gov, 916-978-5213										
Resource	Summary of Environmental Commitments	Timeframe for Implementation	Party Responsible for Implementation	Proponent Verification of Compliance		Reclamation Verification of Compliance				
				Initials	Date	Commitment Implementati on Date	Verification Interval	Final Verification Date	Initials	Date of Verification
	Discharge Requirement (WDR) permit to protect and enhance the beneficial uses of water in the Tulare Lake Basin.									
Water Resources	The District shall follow the Monitoring and Reporting Program, as per their WDR permit, to minimize impact to water resources.	Duration of the Project	KTWD				Once			
Various	Treated produced water shall not exceed the daily maximum limitation of 35 mg/L of oil and grease.	Duration of the Project	KTWD				Once			
Various	The District would be subject to any certifications of approval from the California Department of Water Resources Division of Safety of Dams.	Duration of the Project	KTWD				Once			
Funding: The proponent is responsible for all direct costs to implement, monitor and evaluate the environmental commitments described in the table. The proponent is also responsible for the costs incurred by Reclamation staff to monitor and evaluate the environmental commitments.										

